

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P318541

Luminaire Tested: **GLEON-SA7D-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7D-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40353 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

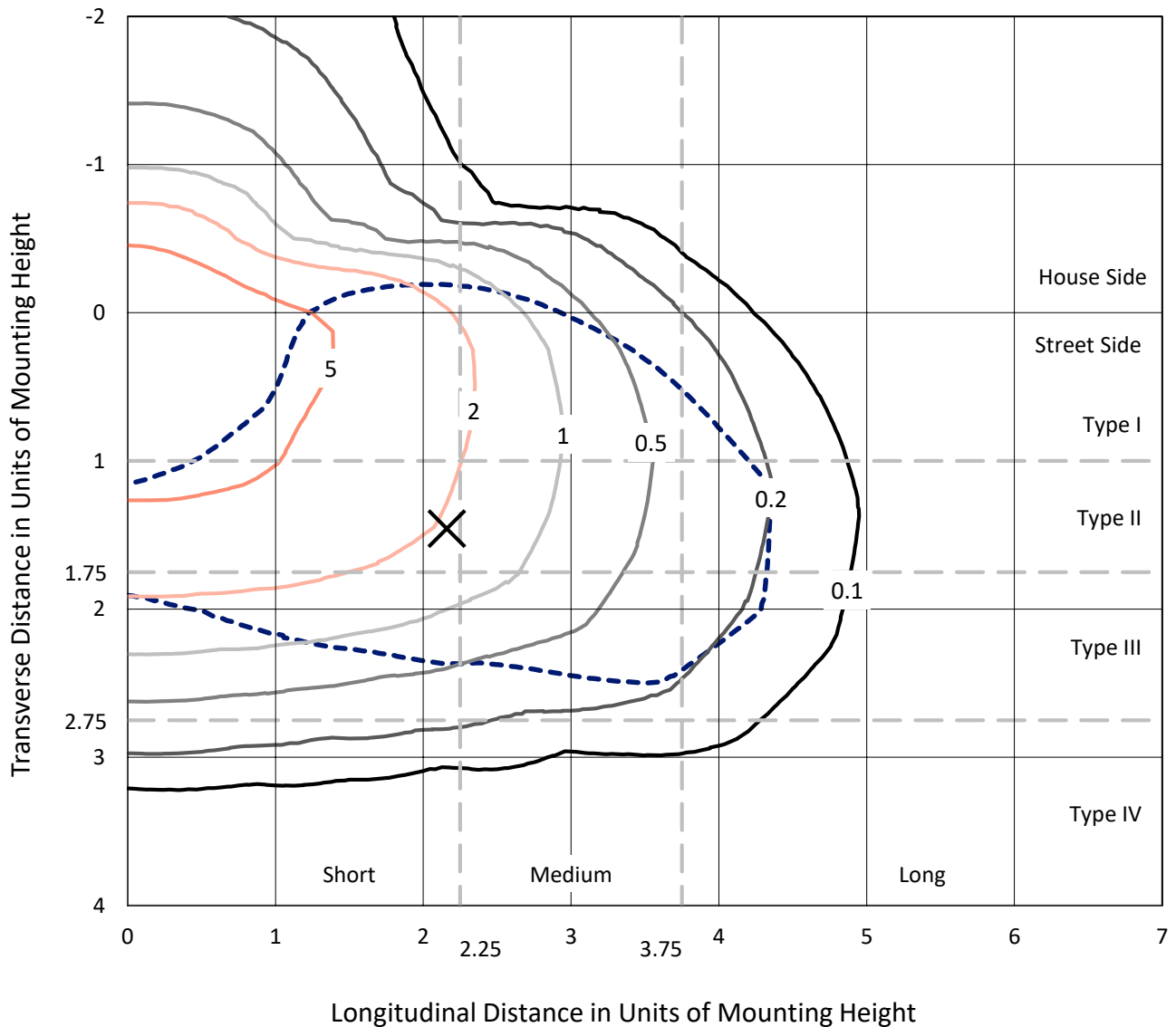
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

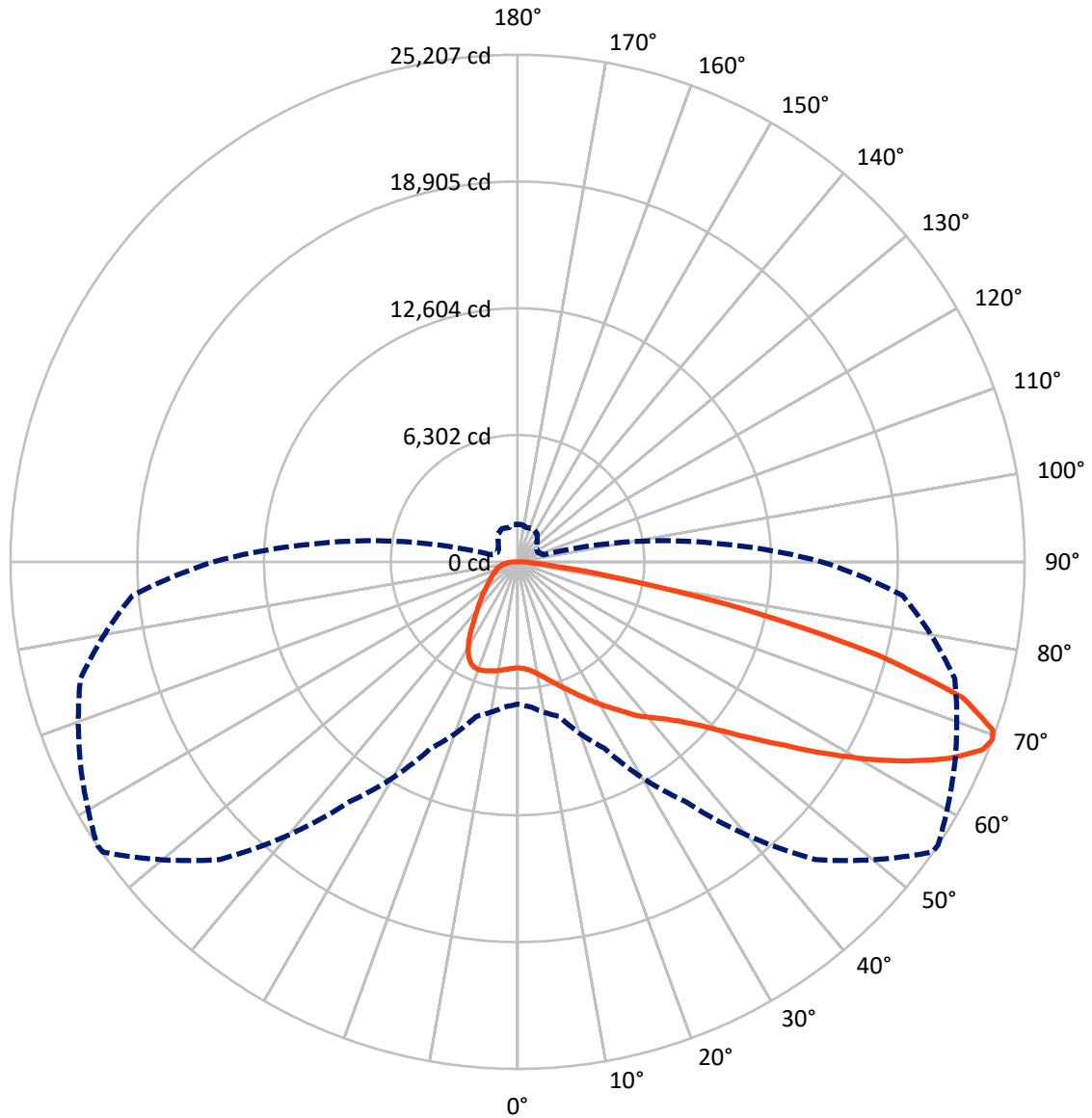
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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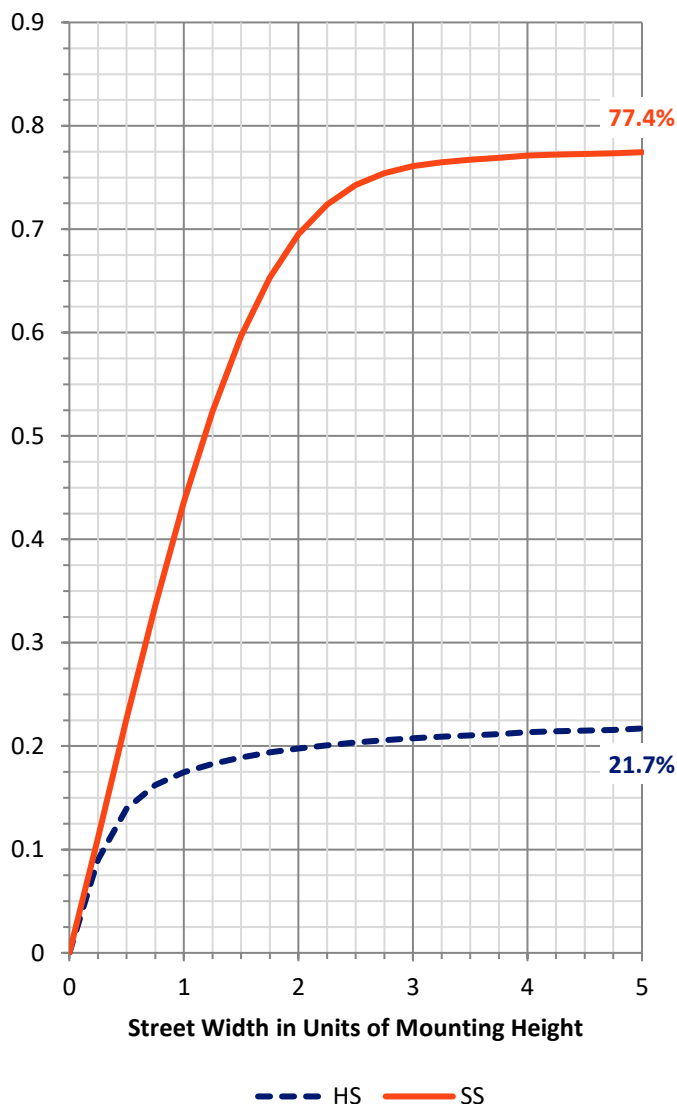
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8986.5	0.0	8986.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	31366.5	0.0	31366.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	40353.0	0.0	40353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.1	1.3
10°-20°	1666.1	4.1
20°-30°	2908.4	7.2
30°-40°	4177.9	10.4
40°-50°	5782.0	14.3
50°-60°	8471.4	21.0
60°-70°	10328.2	25.6
70°-80°	5710.1	14.2
80°-90°	790.8	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40353.0	100.0
0°-180°	40353.0	100.0

**Coefficient of Utilization**

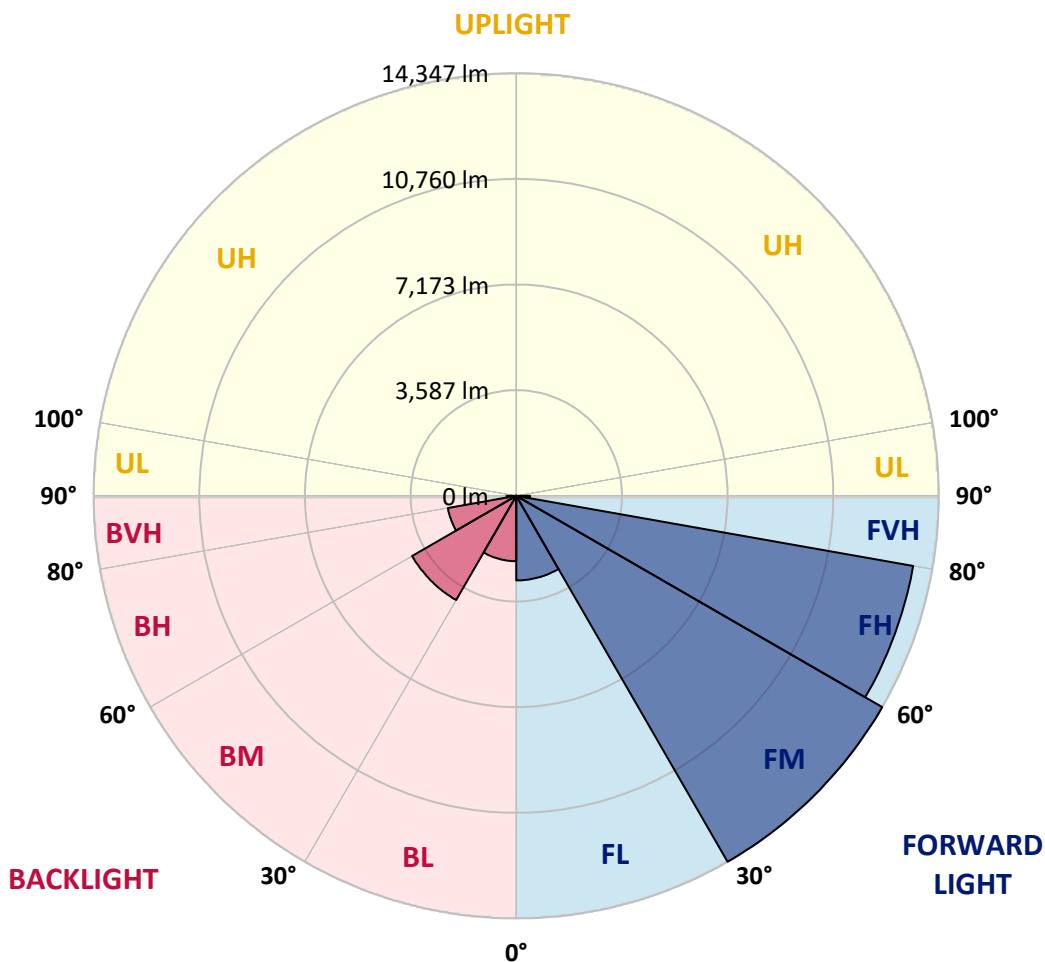


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.9	7.1			
FM (30°-60°)	14347.0	35.6			
FH (60°-80°)	13681.7	33.9			G5
FVH (80°-90°)	465.8	1.2			G3/500
BL (0°-30°)	2220.8	5.5	B3/2500		
BM (30°-60°)	4084.2	10.1	B3/5000		
BH (60°-80°)	2356.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	325.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	5308.9	5314.5	5310.3	5321.4	5308.9	5317.3	5310.3	5310.3	5306.1	5293.6	5279.7
5°	5392.3	5403.4	5396.5	5407.6	5392.3	5395.1	5382.6	5382.6	5370.1	5343.7	5315.9
7.5°	5523.0	5535.5	5529.9	5541.1	5520.2	5520.2	5503.5	5502.1	5477.1	5434.0	5402.0
10°	5678.7	5695.4	5689.8	5706.5	5689.8	5695.4	5678.7	5678.7	5645.3	5584.2	5543.8
12.5°	5905.3	5926.1	5910.8	5909.4	5902.5	5913.6	5899.7	5896.9	5866.4	5782.9	5727.3
15°	6208.3	6230.6	6198.6	6195.8	6156.9	6152.7	6152.7	6148.5	6129.1	6029.0	5937.2
17.5°	6557.2	6564.2	6536.4	6491.9	6441.9	6409.9	6405.7	6416.8	6416.8	6300.1	6154.1
20°	6899.2	6911.7	6889.5	6839.4	6775.5	6728.2	6694.9	6717.1	6715.7	6576.7	6369.6
22.5°	7271.8	7301.0	7267.6	7203.7	7128.6	7075.8	7017.4	7036.8	7038.2	6867.2	6580.9
25°	7754.2	7727.7	7706.9	7616.5	7509.5	7455.3	7401.1	7420.5	7415.0	7180.0	6799.1
27.5°	8180.9	8186.5	8158.7	8062.8	7939.0	7819.5	7816.7	7829.2	7808.4	7505.3	7004.9
30°	8677.2	8680.0	8641.1	8554.9	8420.0	8265.7	8229.6	8250.4	8205.9	7813.9	7221.7
32.5°	9170.7	9184.6	9141.5	9037.2	8928.8	8741.1	8668.9	8682.8	8571.5	8129.5	7445.5
35°	9603.0	9622.5	9608.6	9539.1	9420.9	9259.7	9173.5	9165.1	9027.5	8515.9	7741.6
37.5°	10043.7	10061.8	10046.5	9988.1	9940.8	9769.8	9724.0	9724.0	9484.9	8910.7	8118.4
40°	10496.9	10524.7	10506.6	10426.0	10385.7	10307.8	10198.0	10171.6	9913.0	9384.8	8732.8
42.5°	10918.1	10954.2	11026.5	10979.3	10897.2	10908.4	10687.3	10673.4	10484.4	10085.4	9504.3
45°	11515.8	11568.7	11691.0	11654.9	11638.2	11577.0	11314.3	11301.8	11229.5	11027.9	10462.1
47.5°	12167.8	12240.1	12461.1	12468.1	12647.4	12532.0	12174.8	12131.7	12148.4	12156.7	11631.2
50°	12768.4	12847.6	13210.4	13381.4	13804.0	13829.0	13257.7	13218.8	13284.1	13475.9	12993.6
52.5°	13247.9	13348.0	13801.2	14329.5	15053.7	15259.5	14590.8	14561.6	14610.3	14941.1	14533.8
55°	13599.7	13708.1	14201.6	15163.5	16320.1	16683.0	16125.5	16097.7	16128.3	16549.5	16208.9
57.5°	13681.7	13708.1	14424.0	15725.2	17389.1	18260.8	18003.6	17948.0	17797.8	18164.8	18057.8
60°	13296.6	13402.3	14240.5	15922.6	18216.3	19816.3	19966.5	19896.9	19475.7	19776.0	19689.8
62.5°	12515.3	12704.4	13555.2	15622.3	18540.2	21086.9	21891.8	21808.4	21082.7	21277.3	20863.1
65°	11239.2	11319.8	12213.7	14586.6	18128.7	21900.1	23608.6	23566.9	22653.6	22349.1	21079.9
67.5°	8956.6	9108.1	9867.2	12422.2	16445.3	21804.2	24936.2	24932.0	23679.5	22746.7	20311.2
69°	7075.8	7232.9	7955.7	10232.8	14551.9	20927.0	25158.6	25207.2	23968.6	22504.8	19213.0
70°	5641.2	5823.3	6319.5	8618.8	12871.2	19770.4	24973.7	25061.3	23913.0	22105.9	18199.6
72.5°	2400.8	2548.1	2901.2	4442.9	7844.5	14763.2	22834.3	23165.1	22624.4	20232.0	15041.2
75°	1048.2	1094.0	1253.9	1811.3	3482.3	8035.0	17888.2	18499.9	19345.1	17101.4	11204.5
77.5°	767.4	786.8	874.4	1063.5	1562.5	3034.7	11503.3	11859.2	13951.4	12444.5	6872.8
80°	593.6	607.5	675.6	781.3	1020.4	1227.5	5246.4	5552.2	7844.5	6391.8	2862.3
82.5°	472.6	482.4	529.6	575.5	704.8	743.7	1741.8	1932.3	2895.6	1765.5	757.6
85°	439.3	450.4	467.1	419.8	451.8	436.5	753.5	788.2	874.4	693.7	316.9
87.5°	198.8	234.9	462.9	326.7	240.5	191.8	308.6	322.5	362.8	364.2	140.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	5288.1	5283.9	5290.8	5274.2	5295.0	5293.6	5286.7	5289.4	5303.3	5302.0	5303.3
5°	5320.0	5317.3	5325.6	5313.1	5338.1	5346.4	5347.8	5360.3	5375.6	5379.8	5379.8
7.5°	5400.7	5400.7	5404.8	5388.1	5404.8	5403.4	5396.5	5409.0	5424.3	5425.7	5424.3
10°	5539.7	5541.1	5534.1	5491.0	5477.1	5439.6	5404.8	5406.2	5425.7	5441.0	5445.1
12.5°	5714.8	5709.3	5678.7	5599.4	5541.1	5464.6	5428.5	5427.1	5446.5	5459.0	5463.2
15°	5915.0	5899.7	5820.5	5691.2	5588.3	5513.3	5454.9	5441.0	5429.9	5416.0	5417.3
17.5°	6104.1	6069.3	5937.2	5757.9	5649.5	5549.4	5436.8	5346.4	5283.9	5247.7	5236.6
20°	6295.9	6227.8	6037.3	5820.5	5682.9	5500.7	5283.9	5100.4	4986.4	4933.6	4923.8
22.5°	6471.1	6361.2	6130.5	5885.8	5656.4	5336.7	4996.1	4729.2	4570.8	4499.9	4505.4
25°	6642.0	6489.1	6227.8	5931.7	5523.0	5047.6	4595.8	4267.7	4084.2	4005.0	4002.2
27.5°	6792.2	6618.4	6333.4	5894.2	5274.2	4636.1	4121.7	3802.0	3649.1	3581.0	3569.9
30°	6964.6	6781.1	6473.8	5751.0	4909.9	4160.7	3658.8	3433.6	3325.2	3257.1	3244.6
32.5°	7174.5	7002.1	6589.2	5491.0	4444.2	3664.4	3297.4	3140.3	3041.6	2965.1	2951.2
35°	7480.3	7294.0	6618.4	5118.5	3932.7	3272.4	3031.9	2870.6	2737.2	2638.5	2628.7
37.5°	7864.0	7659.6	6551.7	4636.1	3436.4	3018.0	2810.8	2612.1	2438.3	2299.3	2277.0
40°	8417.2	8108.6	6366.8	4080.0	3070.8	2822.0	2595.4	2368.8	2153.3	1990.7	1958.7
42.5°	9081.7	8635.5	6083.2	3526.8	2802.5	2623.2	2381.3	2100.5	1894.7	1779.4	1762.7
45°	9926.9	9183.2	5689.8	3043.0	2538.4	2424.4	2150.5	1892.0	1764.1	1679.3	1665.4
47.5°	10891.7	9797.6	5276.9	2649.6	2314.6	2238.1	1965.6	1798.8	1697.4	1630.6	1618.1
50°	12077.5	10491.3	4839.0	2327.1	2089.4	2014.3	1878.1	1747.4	1666.8	1615.3	1602.8
52.5°	13414.8	11274.0	4523.5	2072.7	1903.1	1848.9	1832.2	1719.6	1654.3	1615.3	1602.8
55°	14854.9	12070.5	4182.9	1858.6	1741.8	1757.1	1801.6	1722.4	1677.9	1630.6	1612.6
57.5°	16296.5	12893.5	3803.4	1677.9	1613.9	1689.0	1780.8	1727.9	1690.4	1644.5	1627.8
60°	17436.4	13414.8	3215.4	1526.4	1512.5	1613.9	1730.7	1686.2	1637.6	1639.0	1636.2
62.5°	17968.8	13387.0	2566.2	1391.5	1411.0	1512.5	1650.1	1620.9	1580.6	1634.8	1639.0
65°	17670.0	12719.7	1997.6	1269.2	1302.6	1406.8	1566.7	1588.9	1602.8	1707.1	1721.0
67.5°	16416.1	11421.3	1547.2	1162.1	1203.9	1334.5	1575.0	1730.7	1748.8	1858.6	1857.2
69°	15119.1	10203.6	1344.3	1106.5	1155.2	1352.6	1683.4	1821.1	1753.0	1869.7	1853.0
70°	14032.0	9240.2	1235.8	1069.0	1133.0	1384.6	1755.7	1819.7	1732.1	1832.2	1804.4
72.5°	10806.9	6647.6	1048.2	999.5	1057.9	1324.8	1776.6	1779.4	1683.4	1702.9	1655.6
75°	7412.2	4201.0	914.7	905.0	943.9	1194.1	1709.9	1700.1	1556.9	1529.1	1490.2
77.5°	4087.0	2133.9	777.1	814.6	841.0	1057.9	1554.2	1540.3	1422.1	1363.7	1349.8
80°	1576.4	934.2	656.1	724.3	740.9	916.1	1362.3	1349.8	1251.1	1176.1	1155.2
82.5°	595.0	489.3	542.2	626.9	621.4	756.2	1153.8	1146.9	1050.9	941.1	907.8
85°	275.2	293.3	429.6	517.1	476.8	560.2	923.0	935.6	818.8	688.1	688.1
87.5°	116.8	164.0	304.4	390.6	321.1	378.1	677.0	646.4	593.6	411.5	386.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)