

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: P383288

Luminaire Tested: **GLEON-SA6A-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20958 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

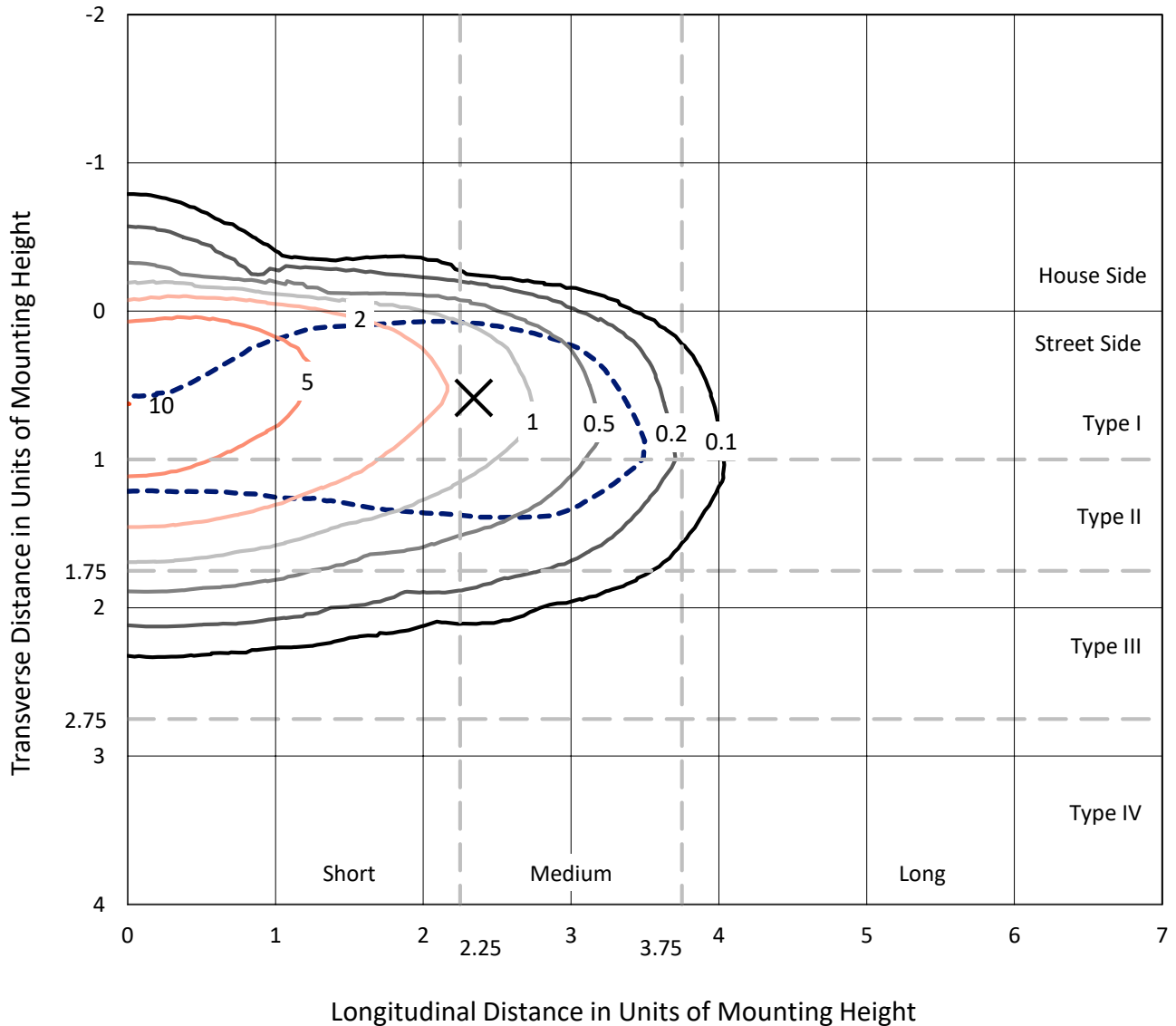
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383288  
 CATALOG NUMBER: GLEON-SA6A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

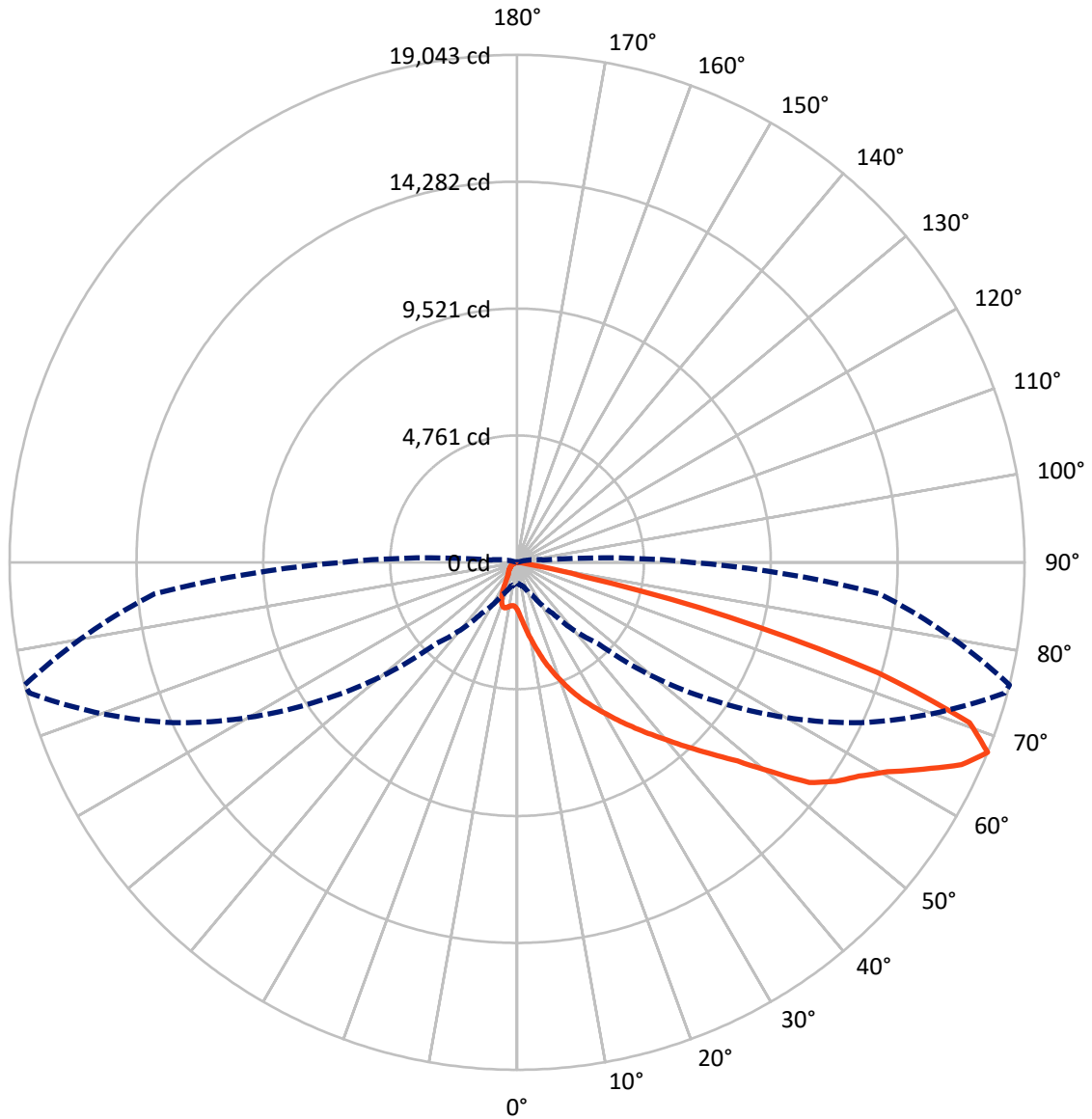
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

REPORT NUMBER: P383288  
CATALOG NUMBER: GLEON-SA6A-735-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6A-735-U-T2R-HSS

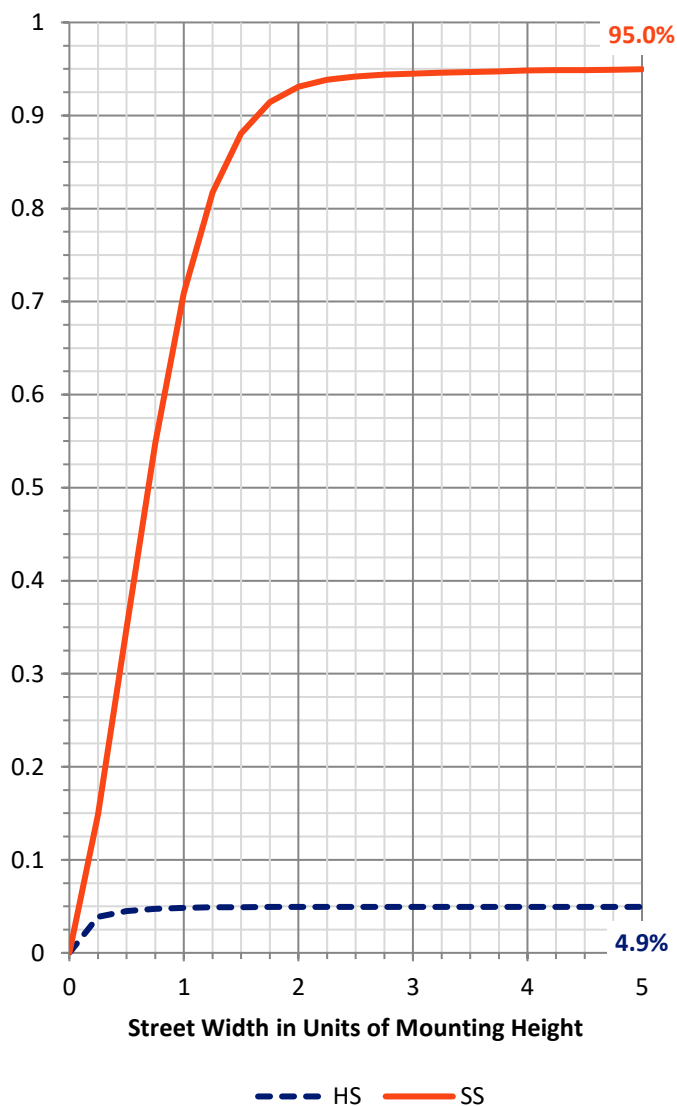
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1040.7	0.0	1040.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	19917.2	0.0	19917.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	20958.0	0.0	20958.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	1.1
10°-20°	876.4	4.2
20°-30°	1783.1	8.5
30°-40°	3094.9	14.8
40°-50°	4372.7	20.9
50°-60°	4958.8	23.7
60°-70°	4112.9	19.6
70°-80°	1489.8	7.1
80°-90°	48.3	0.2
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°	20958.0	100.0
0°-180°	20958.0	100.0

**Coefficient of Utilization**

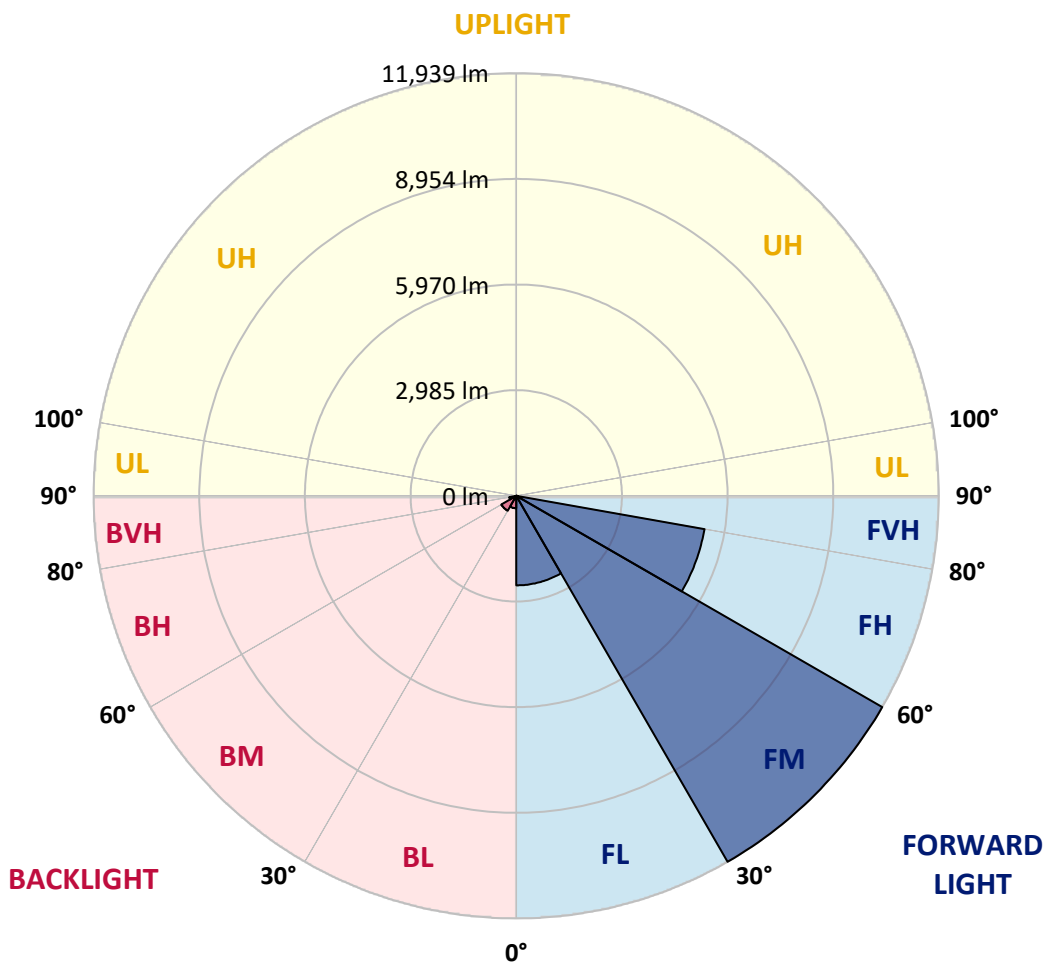


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.6	12.1			
FM (30°-60°)	11939.3	57.0			
FH (60°-80°)	5401.6	25.8			G3/7500
FVH (80°-90°)	46.8	0.2			G1/100
BL (0°-30°)	351.0	1.7	B1/500		
BM (30°-60°)	487.1	2.3	B1/1000		
BH (60°-80°)	201.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	2653.9	2594.2	2608.0	2569.4	2499.6	2356.3	2234.2	2118.5	1983.5	1979.0	1867.8
5°	3578.6	3528.1	3521.7	3443.7	3317.0	3073.5	2836.7	2566.7	2265.4	2243.4	2007.4
7.5°	4418.0	4377.5	4362.9	4270.1	4034.2	3797.2	3488.6	3091.9	2620.8	2580.5	2195.7
10°	5062.6	5043.3	5047.0	4980.9	4778.8	4558.4	4153.5	3647.5	3024.0	2961.6	2421.6
12.5°	5551.2	5555.7	5588.8	5548.4	5435.5	5272.0	4839.5	4239.8	3470.3	3384.9	2679.6
15°	5910.2	5933.2	5993.8	6044.3	6036.1	5894.6	5497.9	4841.3	3944.2	3849.5	2967.1
17.5°	6142.5	6168.2	6256.5	6368.4	6471.3	6438.2	6133.4	5421.7	4423.5	4314.2	3274.7
20°	6346.4	6376.7	6471.3	6619.1	6811.1	6852.4	6652.2	5984.6	4901.9	4768.8	3592.4
22.5°	6788.1	6787.2	6845.1	6931.4	7114.1	7220.6	7093.9	6507.1	5374.8	5236.2	3916.6
25°	7587.1	7556.7	7536.5	7468.6	7509.0	7575.1	7504.4	6995.6	5850.5	5710.0	4245.3
27.5°	8536.6	8555.0	8391.5	8208.7	8067.3	7999.4	7883.7	7448.4	6307.9	6153.6	4566.7
30°	9538.5	9544.0	9351.2	9117.9	8806.6	8548.5	8348.3	7880.9	6778.0	6610.0	4879.0
32.5°	10442.1	10406.2	10215.3	9897.5	9504.5	9214.3	8798.3	8363.9	7275.8	7113.2	5226.1
35°	11158.4	11116.1	10883.7	10594.5	10186.8	9894.7	9394.3	8846.1	7799.2	7640.3	5574.1
37.5°	11681.8	11632.2	11393.4	11095.9	10744.2	10574.3	10085.8	9370.4	8370.3	8199.6	5940.6
40°	11863.6	11820.4	11670.8	11453.1	11170.3	11131.7	10819.5	9973.7	8992.0	8810.2	6355.6
42.5°	11755.2	11713.0	11659.7	11586.3	11468.7	11505.5	11511.9	10661.6	9682.6	9503.6	6813.8
45°	11325.5	11287.8	11342.9	11450.4	11596.4	11778.2	12143.7	11400.7	10454.0	10263.0	7343.7
47.5°	10692.8	10665.2	10817.7	11085.8	11512.8	12014.2	12721.3	12177.7	11320.0	11142.7	8004.9
50°	9792.8	9788.2	10093.1	10582.6	11239.1	12128.1	13318.2	13061.0	12523.0	12336.6	8924.1
52.5°	8391.5	8400.7	9000.3	9783.7	10758.9	12051.0	13702.0	14196.1	13922.4	13728.7	9720.2
55°	7057.2	7112.3	7537.4	8666.9	10022.4	11764.4	13834.3	14726.0	14694.8	14511.1	10162.9
57.5°	5750.4	5850.5	6260.1	7315.3	8947.0	11104.1	13761.8	14955.5	15269.6	15129.1	10747.0
60°	4334.4	4380.3	4852.3	5838.6	7566.9	9899.4	13235.5	15080.5	16055.7	15958.3	11594.5
62.5°	2757.7	2872.4	3291.3	4242.5	5891.9	8226.2	12348.5	15078.6	17039.2	17092.4	12688.2
65°	1452.7	1586.8	1809.1	2629.1	4048.8	6357.4	11014.2	14937.2	18245.9	18320.2	13543.2
67.5°	783.3	821.9	939.5	1364.6	2348.2	4306.8	9053.6	14239.3	18944.7	19042.9	13662.5
70°	573.0	594.1	638.2	754.8	1181.9	2501.5	6606.3	12657.0	18043.8	18007.1	12139.1
72.5°	439.9	472.9	506.0	552.8	679.6	1335.2	4113.1	9911.3	14397.3	14154.8	9073.8
75°	347.1	352.6	399.4	441.7	509.6	760.3	1826.5	5772.5	8787.3	8213.4	4705.4
77.5°	277.3	281.0	308.5	345.3	409.6	499.6	565.6	2270.9	2805.4	2503.3	1021.2
80°	164.4	173.5	229.5	266.3	339.7	315.0	206.6	493.2	438.0	396.7	171.7
82.5°	91.9	99.2	129.5	210.3	236.9	150.6	102.8	133.1	102.8	100.1	48.6
85°	0.0	4.6	83.6	130.4	96.4	33.1	43.1	44.1	30.3	28.5	19.3
87.5°	0.0	0.0	25.7	24.8	3.6	5.5	10.1	14.7	11.9	11.9	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383288

CATALOG NUMBER: GLEON-SA6A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	1812.7	1763.1	1669.5	1577.7	1500.5	1437.2	1380.2	1357.3	1338.9	1336.1	1321.4
5°	1893.6	1793.4	1614.4	1467.5	1369.2	1299.4	1239.7	1203.0	1174.5	1163.5	1153.3
7.5°	2015.7	1864.1	1607.0	1438.0	1320.6	1203.0	1092.8	973.4	899.0	870.5	854.0
10°	2164.5	1957.8	1634.6	1429.8	1224.1	976.2	793.4	641.9	580.4	560.1	554.6
12.5°	2338.0	2074.5	1682.4	1378.4	1018.4	693.4	547.3	495.9	482.1	475.6	475.6
15°	2537.3	2202.1	1716.3	1229.6	753.0	524.4	473.9	449.9	435.3	427.0	428.0
17.5°	2741.2	2327.0	1699.8	1013.8	555.6	466.5	428.9	403.2	383.0	374.7	372.8
20°	2946.9	2442.7	1607.9	754.8	470.2	423.3	381.1	352.6	332.5	324.2	322.3
22.5°	3159.9	2541.0	1446.3	553.7	422.5	375.6	334.2	305.8	286.5	279.2	275.5
25°	3367.5	2620.8	1220.4	448.2	377.5	330.6	291.1	264.5	247.0	239.7	238.8
27.5°	3561.2	2671.4	958.7	395.8	338.0	290.2	254.4	230.5	215.8	210.3	209.4
30°	3735.7	2676.0	708.9	357.2	303.0	255.2	222.3	201.1	188.3	182.8	180.9
32.5°	3911.9	2637.4	516.1	322.3	270.9	225.0	192.8	176.3	167.1	162.6	162.6
35°	4078.2	2548.3	402.2	292.0	239.7	195.6	169.9	158.0	152.4	147.8	147.8
37.5°	4240.8	2420.6	341.6	265.4	210.3	170.8	149.7	142.3	137.8	133.1	133.1
40°	4406.0	2259.9	310.4	240.6	186.4	151.6	133.1	126.7	122.1	118.5	117.6
42.5°	4609.0	2074.5	290.2	217.6	165.3	134.0	117.6	110.2	106.6	102.8	101.0
45°	4844.0	1914.7	273.7	194.7	147.8	119.4	101.9	94.6	89.1	84.5	83.6
47.5°	5182.9	1799.0	251.6	169.9	131.3	103.8	88.1	79.9	71.6	67.1	66.1
50°	5615.5	1703.4	223.1	147.8	114.8	88.1	73.5	63.3	56.0	51.4	51.4
52.5°	5830.4	1578.6	197.4	128.6	96.4	74.3	59.7	47.8	44.1	39.5	39.5
55°	5916.6	1483.0	171.7	109.3	79.9	61.5	46.9	36.7	34.0	31.2	30.3
57.5°	6159.1	1455.5	149.7	92.8	66.1	48.6	35.8	27.6	25.7	22.1	22.1
60°	6549.3	1469.3	129.5	79.0	53.3	37.6	26.6	21.1	19.3	15.6	15.6
62.5°	6970.9	1451.8	109.3	67.9	41.4	27.6	18.4	15.6	15.6	9.2	8.3
65°	7051.7	1293.0	93.7	56.0	32.1	20.2	11.9	10.1	13.8	1.9	0.0
67.5°	6544.8	1002.8	80.8	43.1	23.8	15.6	9.2	4.6	11.9	0.0	0.0
70°	5233.4	637.3	65.2	31.2	18.4	12.9	7.4	1.9	9.2	0.0	0.0
72.5°	3700.8	370.1	51.4	22.1	15.6	10.1	5.5	0.0	5.5	0.0	0.0
75°	1871.5	197.4	32.1	16.5	11.9	7.4	3.6	0.0	0.9	0.0	0.0
77.5°	404.9	91.9	20.2	11.9	8.3	4.6	1.9	0.0	0.0	0.0	0.0
80°	88.1	40.4	12.9	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	21.1	6.4	3.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	11.0	3.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)