

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: P319819

Luminaire Tested: **GLEON-SA5D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28511 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

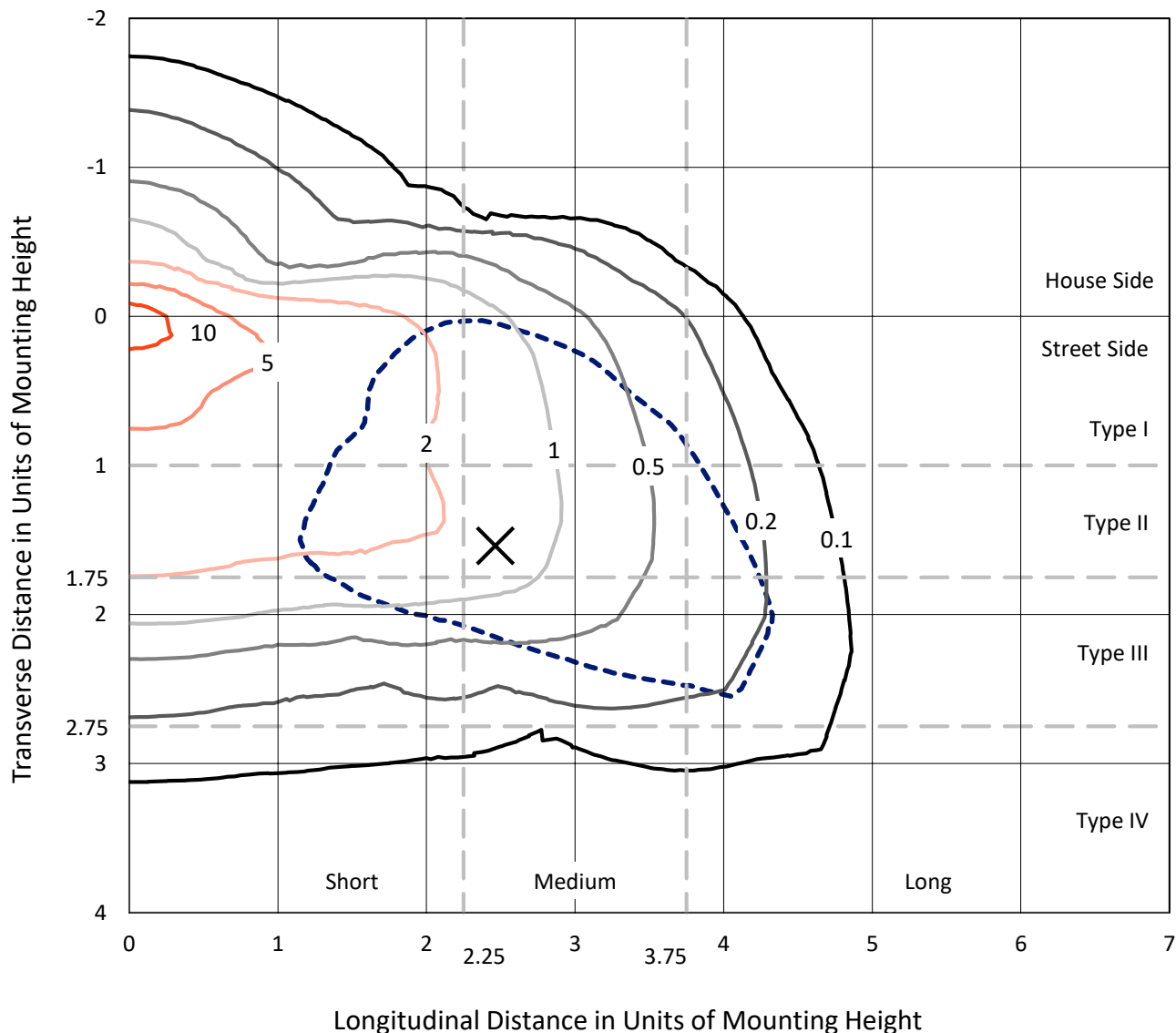
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

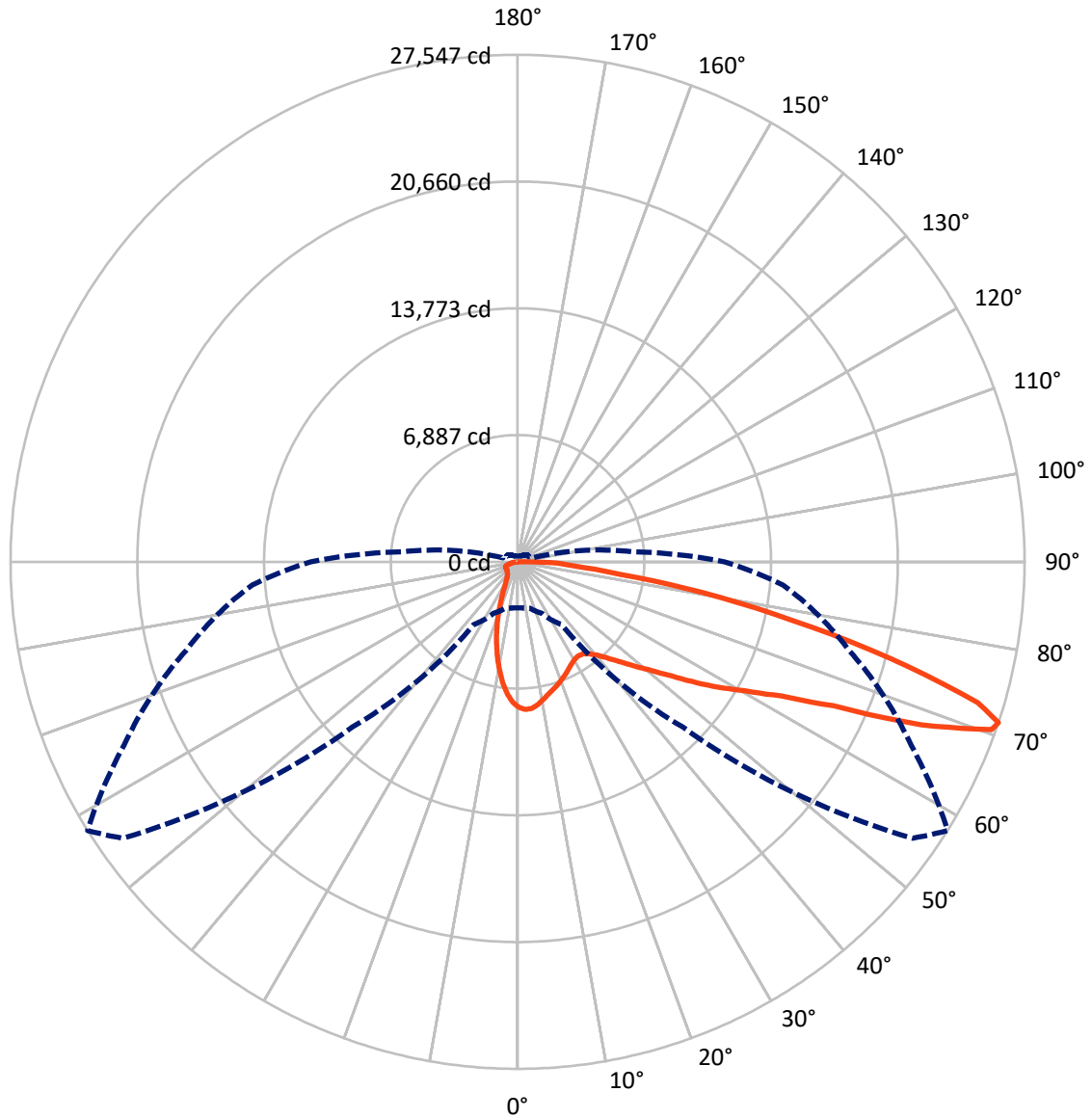
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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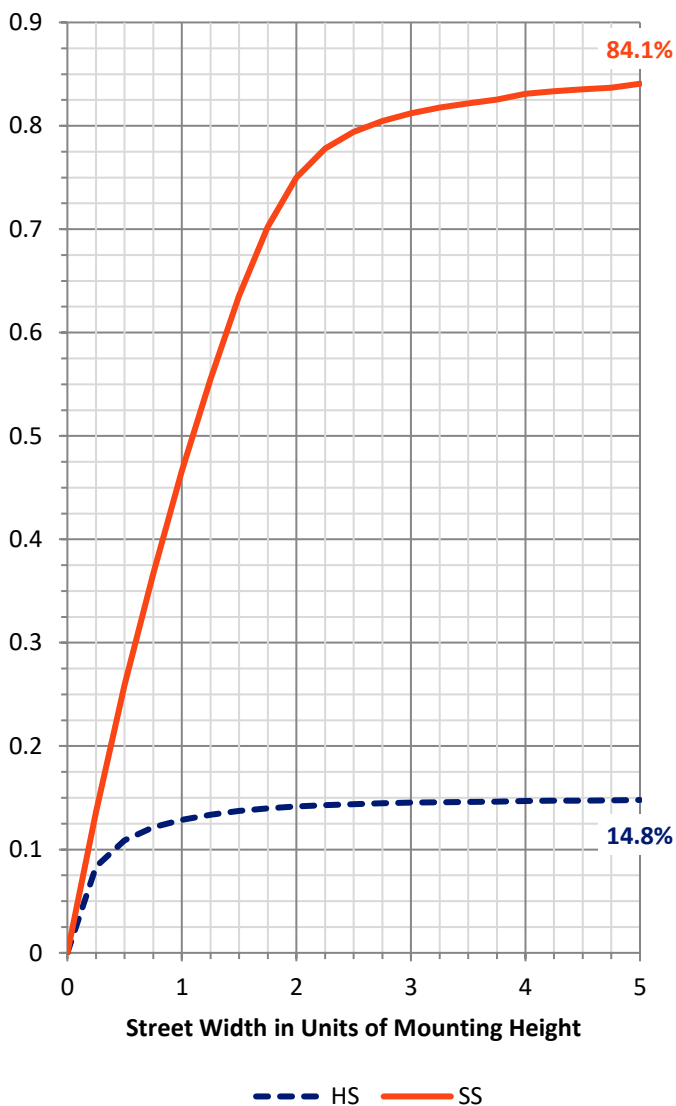
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4262.6	0.0	4262.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24248.4	0.0	24248.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	28511.0	0.0	28511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.5	2.4
10°-20°	1515.4	5.3
20°-30°	1925.9	6.8
30°-40°	2453.2	8.6
40°-50°	3478.7	12.2
50°-60°	5383.5	18.9
60°-70°	7328.9	25.7
70°-80°	4889.2	17.1
80°-90°	854.8	3.0
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°	28511.0	100.0
0°-180°	28511.0	100.0

Coefficient of Utilization

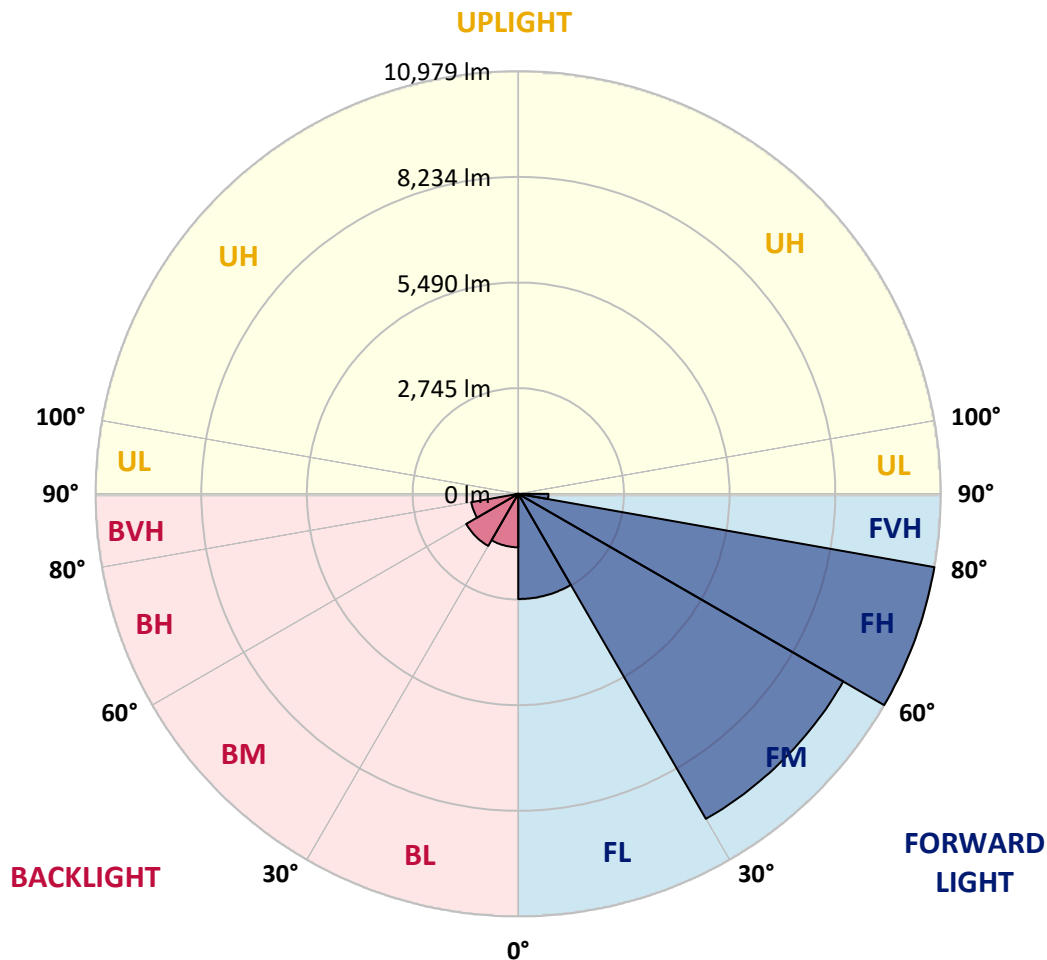


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.2	9.6			
FM (30°-60°)	9752.1	34.2			
FH (60°-80°)	10979.2	38.5			G4/12000
FVH (80°-90°)	783.8	2.7			G5
BL (0°-30°)	1389.5	4.9	B3/2500		
BM (30°-60°)	1563.2	5.5	B2/2500		
BH (60°-80°)	1238.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.0	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5
2.5°	8109.0	8098.1	8102.1	8094.1	8075.2	8056.4	8028.6	8033.5	7994.8	7937.2	7865.7
5°	7956.1	7952.1	7981.9	7998.8	8012.7	8001.7	7993.8	8003.7	7947.1	7867.7	7743.5
7.5°	7635.3	7591.6	7629.3	7685.9	7739.6	7780.3	7833.9	7840.9	7805.1	7721.7	7558.8
10°	7179.4	7137.7	7193.3	7281.7	7389.0	7486.3	7594.6	7614.4	7621.4	7545.9	7348.3
12.5°	6706.7	6674.9	6730.5	6854.7	7032.4	7182.4	7355.2	7385.0	7446.6	7395.9	7153.6
15°	6283.6	6271.7	6339.2	6461.4	6666.0	6895.4	7144.7	7199.3	7303.6	7286.7	7001.7
17.5°	5918.1	5915.2	5966.8	6094.9	6321.4	6611.3	6935.1	7027.5	7182.4	7202.3	6876.5
20°	5646.0	5640.1	5675.8	5770.2	6003.5	6332.3	6708.7	6835.8	7059.3	7128.8	6747.4
22.5°	5500.0	5499.0	5500.0	5544.7	5735.4	6041.3	6488.2	6643.1	6939.1	7070.2	6604.4
25°	5475.2	5472.2	5450.4	5445.4	5553.7	5798.0	6269.7	6440.5	6824.9	7029.5	6468.3
27.5°	5539.7	5543.7	5514.9	5468.2	5490.1	5638.1	6080.0	6262.8	6733.5	7021.5	6374.0
30°	5673.8	5671.8	5647.0	5598.3	5555.6	5578.5	5944.9	6127.7	6671.9	7056.3	6309.4
32.5°	5821.8	5832.7	5827.8	5800.9	5737.4	5646.0	5904.2	6083.0	6654.1	7139.7	6281.6
35°	5999.6	6011.5	6047.2	6068.1	5993.6	5846.6	5991.6	6146.6	6705.7	7296.6	6326.3
37.5°	6168.4	6199.2	6299.5	6387.9	6324.3	6160.5	6224.0	6334.3	6865.6	7543.9	6446.5
40°	6363.1	6389.9	6553.7	6741.4	6731.5	6561.7	6598.4	6671.9	7147.6	7898.5	6664.0
42.5°	6554.7	6608.4	6845.7	7111.9	7188.4	7038.4	7097.0	7135.7	7544.9	8368.2	7043.4
45°	6810.0	6867.6	7197.3	7518.1	7696.9	7612.4	7705.8	7720.7	8044.5	9007.8	7594.6
47.5°	7196.3	7261.9	7646.2	7982.9	8256.0	8264.9	8418.9	8412.9	8668.1	9739.7	8288.8
50°	7798.2	7892.5	8207.3	8522.2	8853.9	9038.6	9244.2	9215.4	9416.0	10519.4	9088.2
52.5°	8586.7	8630.4	8863.8	9096.2	9508.3	9922.5	10217.4	10191.6	10264.1	11320.8	9996.0
55°	9404.1	9436.8	9533.2	9660.3	10214.5	10889.8	11513.5	11472.8	11289.0	12153.1	10892.8
57.5°	10139.0	10205.5	10272.1	10324.7	10925.6	11900.8	12839.3	12842.3	12401.4	13050.9	11819.4
60°	10253.2	10311.8	10751.8	11166.9	12142.2	13249.5	14258.5	14228.7	13552.4	14025.2	12852.3
62.5°	9063.4	9195.5	9930.4	11034.8	13314.1	15716.5	16069.0	16032.3	14928.9	15225.9	14054.9
65°	6495.1	6645.1	7532.0	9191.5	12746.0	18434.7	19336.5	18841.9	16806.0	16702.7	15463.2
67.5°	3747.1	3782.9	4167.2	5500.0	9705.0	18576.7	24321.1	23628.8	19720.8	18378.1	16152.5
70°	2770.9	2769.9	2861.2	3384.6	5251.7	15161.3	26691.7	27312.4	22789.6	18929.3	15178.2
71°	2505.7	2508.7	2611.0	3080.7	4159.3	12690.4	26188.2	27546.8	23598.1	18657.2	14473.1
72.5°	2143.2	2153.1	2295.2	2762.9	3498.8	8751.6	24019.1	26140.5	23981.4	17985.8	13369.7
75°	1625.8	1648.6	1845.3	2328.9	3197.9	4438.4	17628.3	20873.9	21303.9	15870.4	9934.4
77.5°	1160.0	1185.8	1408.3	1958.5	3040.0	3344.9	11805.5	15225.9	15677.7	10170.8	4481.1
80°	732.9	763.7	931.6	1558.2	2856.3	3176.1	7418.8	10234.3	8549.0	3254.5	1140.1
82.5°	430.0	453.9	578.0	1018.0	2332.9	3058.9	4364.9	5672.8	3327.0	983.2	518.4
85°	249.3	260.2	360.5	648.5	1694.3	2887.1	3206.9	3171.1	1444.0	480.7	245.3
87.5°	116.2	129.1	213.5	338.7	940.5	2092.6	2534.5	2189.9	897.8	225.4	115.2
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°	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5
2.5°	7830.9	7814.0	7743.5	7681.0	7615.4	7530.0	7435.7	7423.7	7366.1	7377.1	7357.2
5°	7676.0	7633.3	7463.5	7309.5	7127.8	6964.9	6788.1	6706.7	6589.5	6581.6	6551.8
7.5°	7454.5	7375.1	7111.9	6819.9	6527.9	6249.8	5974.7	5794.0	5609.3	5530.8	5523.9
10°	7205.2	7070.2	6682.9	6250.8	5829.7	5423.5	5030.3	4739.3	4477.1	4352.9	4348.0
12.5°	6968.9	6769.3	6237.9	5650.0	5074.0	4547.6	4008.3	3626.0	3297.2	3187.0	3140.3
15°	6768.3	6487.2	5804.9	5053.1	4353.9	3623.0	3009.2	2607.0	2303.1	2197.8	2178.0
17.5°	6573.6	6212.1	5361.0	4450.3	3605.1	2801.7	2186.9	1888.0	1726.1	1683.4	1682.4
20°	6379.9	5929.1	4897.2	3833.5	2881.1	2095.5	1681.4	1547.3	1492.7	1487.7	1479.8
22.5°	6160.5	5629.1	4409.6	3214.8	2248.5	1647.6	1429.1	1375.5	1368.5	1386.4	1386.4
25°	5954.9	5331.2	3915.0	2609.0	1748.9	1374.5	1276.2	1265.3	1284.1	1315.9	1318.9
27.5°	5763.2	5044.2	3432.3	2070.7	1401.3	1210.6	1169.9	1182.8	1216.6	1253.3	1254.3
30°	5605.3	4773.0	2963.5	1631.7	1183.8	1088.5	1081.5	1107.4	1144.1	1172.9	1179.9
32.5°	5483.1	4541.6	2510.7	1311.9	1041.8	997.1	1003.1	1024.9	1047.8	1063.7	1074.6
35°	5426.5	4343.0	2092.6	1106.4	951.4	926.6	934.5	946.5	956.4	968.3	977.3
37.5°	5436.5	4189.1	1719.1	978.2	890.8	877.9	877.9	877.9	877.9	883.9	884.9
40°	5528.8	4100.7	1415.2	896.8	850.1	836.2	825.3	815.4	807.4	811.4	809.4
42.5°	5765.2	4092.7	1192.8	845.2	817.4	794.5	772.7	758.8	748.8	752.8	754.8
45°	6166.4	4192.1	1042.8	808.4	786.6	751.8	724.0	709.1	702.2	715.1	717.0
47.5°	6685.8	4408.6	951.4	781.6	757.8	712.1	682.3	668.4	670.4	689.2	694.2
50°	7355.2	4760.1	907.7	764.7	737.9	678.3	647.5	635.6	641.6	668.4	674.3
52.5°	8090.1	5266.6	912.7	759.8	725.0	653.5	620.7	606.8	616.7	641.6	646.5
55°	8938.3	5875.4	995.1	766.7	706.1	637.6	598.9	575.0	583.0	605.8	609.8
57.5°	9880.8	6572.6	1161.0	764.7	682.3	622.7	576.0	540.3	546.2	560.1	564.1
60°	10862.0	7414.8	1418.2	770.7	671.4	604.8	545.2	500.5	498.6	510.5	512.5
62.5°	12039.9	8389.1	1712.2	774.7	678.3	582.0	504.5	460.8	454.9	457.8	459.8
65°	13253.5	9094.2	1601.9	758.8	700.2	563.1	468.8	422.1	411.2	409.2	410.2
67.5°	13291.2	8338.4	1123.2	727.0	709.1	553.2	441.9	389.3	371.4	364.5	363.5
70°	11919.7	6774.2	875.0	693.2	673.4	537.3	417.1	362.5	335.7	324.8	323.8
71°	11250.3	6235.9	829.3	676.3	646.5	521.4	406.2	350.6	322.8	310.9	308.9
72.5°	10200.6	5590.4	773.7	649.5	594.9	480.7	385.3	333.7	304.9	291.0	288.0
75°	7320.5	3655.8	664.4	579.0	492.6	383.4	337.7	299.9	275.1	258.2	256.2
77.5°	2820.5	1455.0	502.5	481.7	377.4	299.9	278.1	259.2	241.3	224.5	223.5
80°	872.0	650.5	366.5	362.5	273.1	223.5	216.5	211.5	204.6	186.7	182.7
82.5°	465.8	373.4	252.3	234.4	178.8	149.0	156.9	158.9	159.9	141.0	139.0
85°	222.5	197.6	142.0	133.1	104.3	83.4	96.3	104.3	105.3	86.4	80.4
87.5°	106.3	103.3	66.5	50.7	38.7	27.8	33.8	41.7	45.7	32.8	28.8
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)