

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: P383034

Luminaire Tested: **GLEON-SA3D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15696.6 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

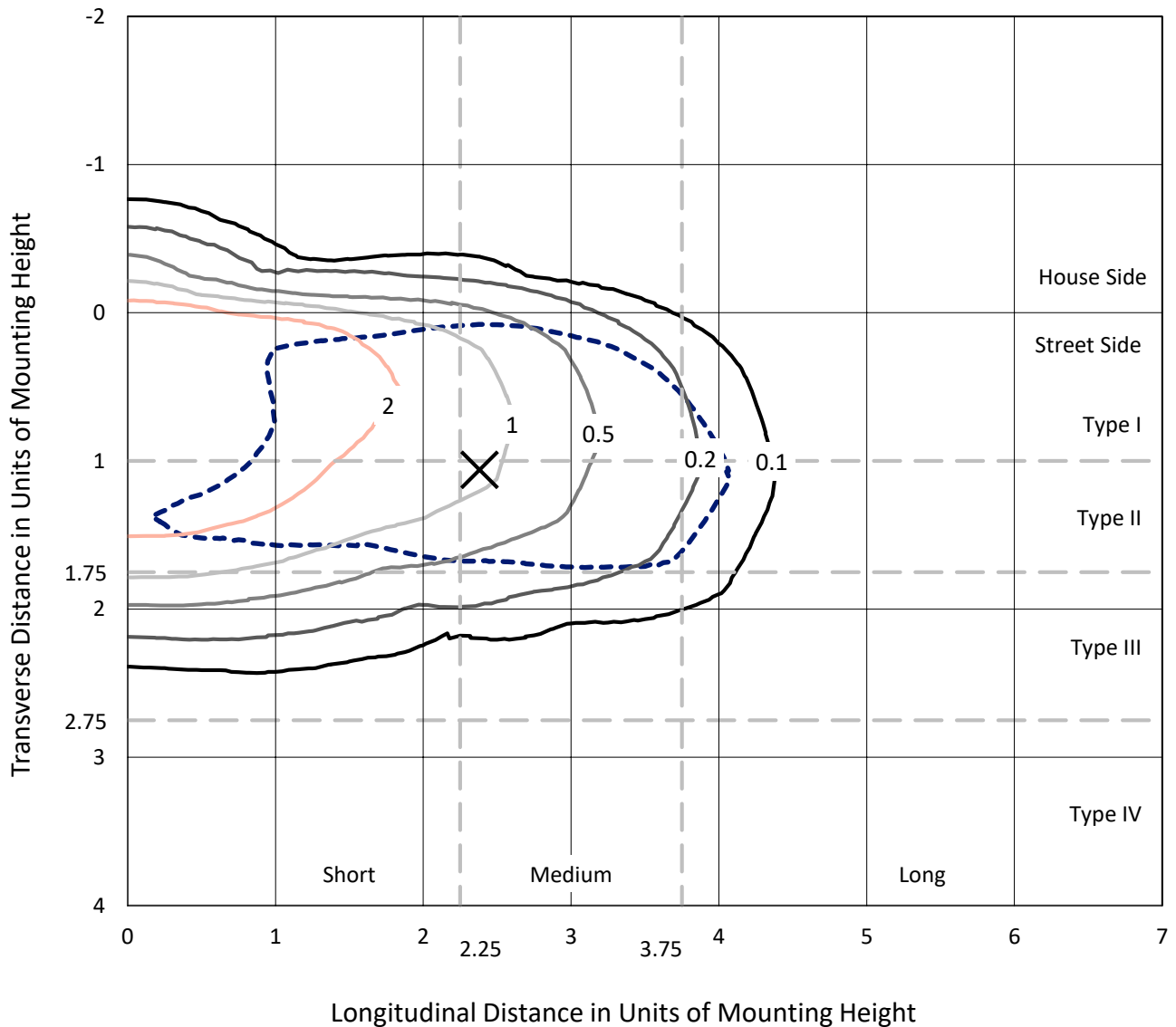
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

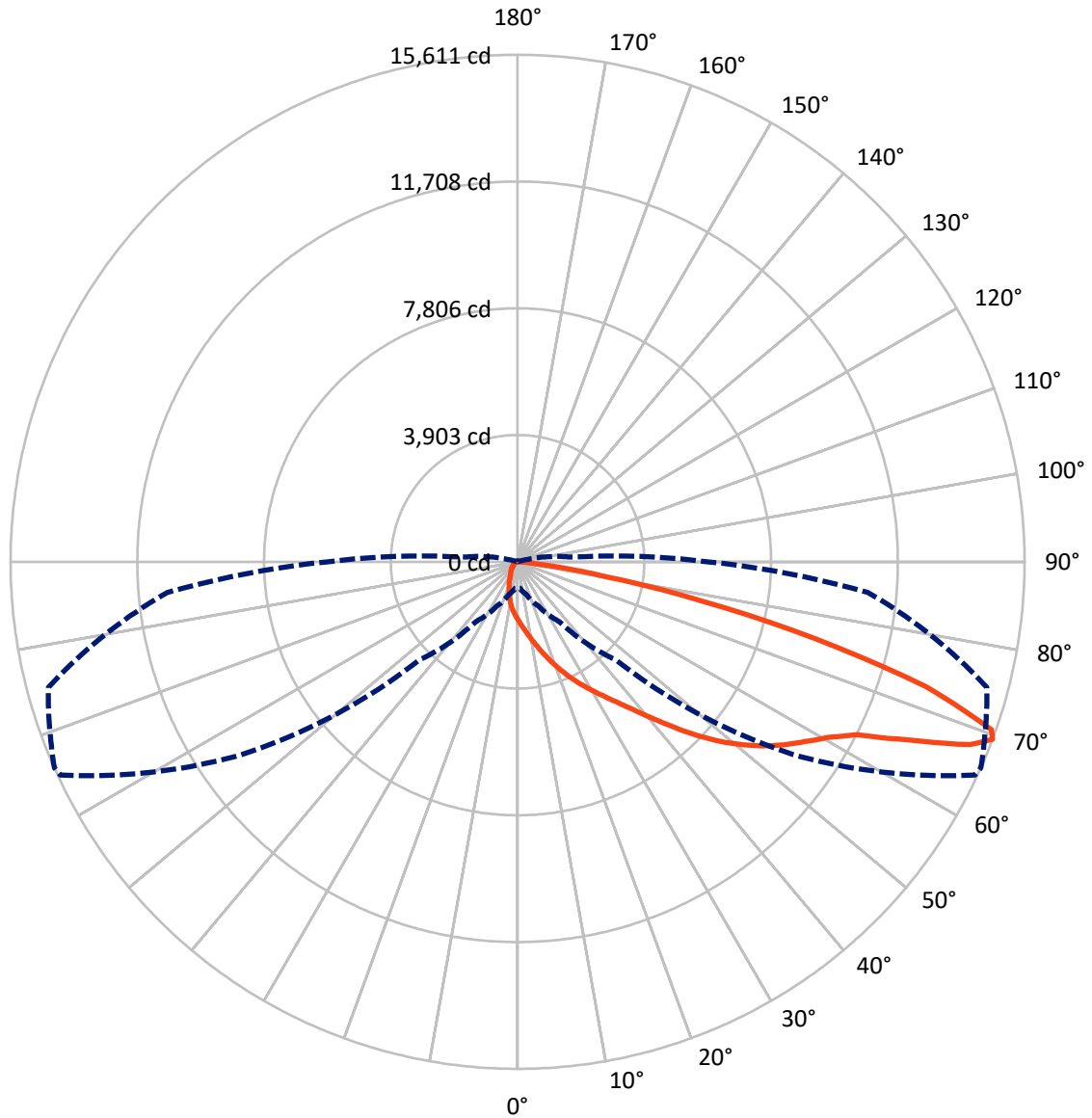
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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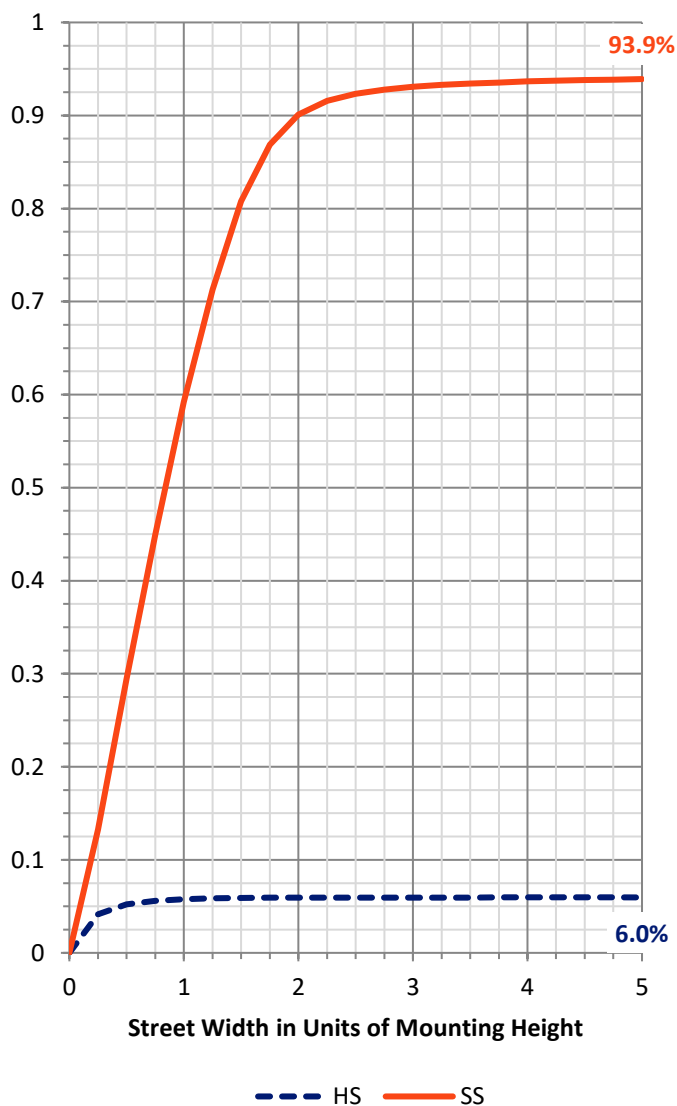
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.6	0.0	941.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14755.0	0.0	14755.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	15696.6	0.0	15696.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.1
10°-20°	513.9	3.3
20°-30°	894.9	5.7
30°-40°	1570.1	10.0
40°-50°	2628.1	16.7
50°-60°	3863.0	24.6
60°-70°	3966.4	25.3
70°-80°	1958.1	12.5
80°-90°	129.5	0.8
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°	15696.6	100.0
0°-180°	15696.6	100.0

Coefficient of Utilization

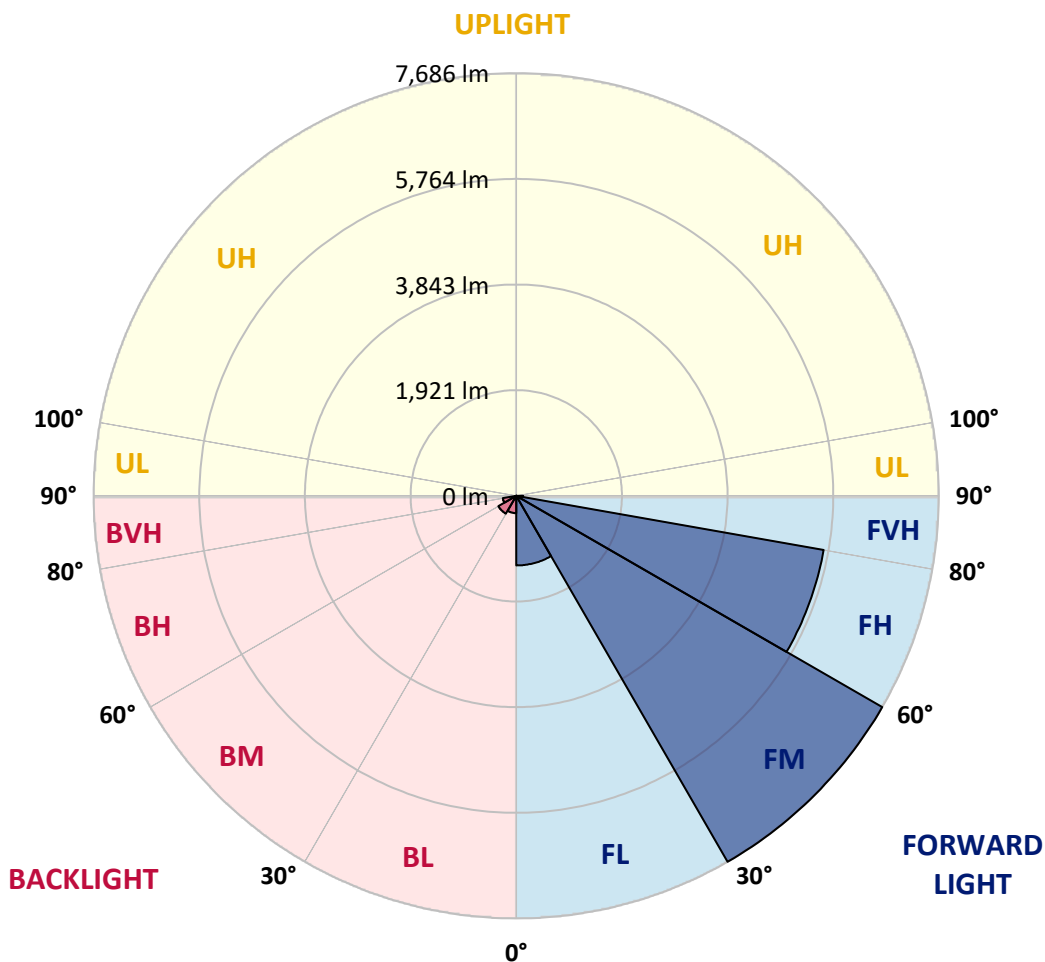


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.6	8.1			
FM (30°-60°)	7685.8	49.0			
FH (60°-80°)	5676.3	36.2			G3/7500
FVH (80°-90°)	126.3	0.8			G2/225
BL (0°-30°)	314.9	2.0	B1/500		
BM (30°-60°)	375.4	2.4	B1/1000		
BH (60°-80°)	248.1	1.6	B1/500		G1/500
BVH (80°-90°)	3.1	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°	66°	75°	85°
0°	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3
2.5°	2102.4	2093.5	2089.7	2073.3	2045.0	2023.4	1981.7	1933.1	1924.2	1877.3	1819.9
5°	2375.3	2367.8	2362.6	2339.5	2310.4	2256.0	2180.0	2089.7	2072.6	1983.2	1868.3
7.5°	2565.4	2578.8	2578.8	2563.9	2527.4	2486.4	2393.2	2270.2	2248.6	2111.4	1933.1
10°	2676.5	2692.9	2705.6	2718.3	2713.0	2696.6	2608.6	2470.0	2443.9	2262.0	2008.5
12.5°	2687.0	2703.4	2739.1	2792.0	2843.5	2880.8	2825.6	2691.4	2661.6	2436.5	2097.9
15°	2628.8	2646.0	2701.1	2804.0	2928.5	3037.3	3055.2	2936.7	2906.1	2644.5	2209.8
17.5°	2527.4	2538.6	2617.6	2760.0	2955.3	3155.2	3263.2	3199.9	3171.5	2882.3	2334.3
20°	2452.1	2460.3	2529.6	2682.5	2938.9	3228.9	3460.0	3479.4	3449.6	3137.3	2469.3
22.5°	2581.0	2595.9	2598.2	2670.6	2894.2	3265.4	3633.0	3754.5	3732.2	3407.9	2601.9
25°	2933.7	2950.9	2894.2	2849.5	2932.2	3281.8	3781.4	4036.4	4018.5	3699.4	2735.4
27.5°	3399.7	3417.6	3344.5	3211.0	3131.3	3343.8	3913.3	4322.7	4321.9	4008.1	2879.3
30°	3857.4	3875.3	3800.8	3667.3	3483.9	3518.9	4027.5	4622.3	4626.8	4326.4	3032.1
32.5°	4337.6	4359.9	4283.2	4111.7	3920.0	3821.7	4187.7	4923.6	4948.9	4695.5	3204.3
35°	4883.3	4886.2	4778.2	4598.5	4377.8	4226.5	4445.0	5261.3	5321.7	5152.5	3422.8
37.5°	5418.6	5440.2	5351.5	5068.2	4865.4	4694.0	4827.4	5683.3	5769.0	5710.9	3708.3
40°	5815.3	5860.7	5848.1	5542.3	5350.0	5227.8	5302.3	6185.0	6293.9	6361.0	4068.4
42.5°	6064.3	6098.6	6156.7	5972.5	5798.0	5818.3	5863.0	6769.6	6903.7	7102.0	4482.2
45°	6349.8	6366.2	6414.6	6333.4	6215.6	6418.4	6457.9	7427.9	7568.7	7899.1	4941.5
47.5°	6698.7	6737.5	6750.9	6676.3	6622.7	6949.3	7031.2	8026.5	8224.1	8752.6	5427.6
50°	7143.0	7153.4	7176.6	7128.1	7074.5	7405.5	7545.6	8655.0	8834.7	9609.3	5906.9
52.5°	7577.7	7614.9	7695.5	7665.0	7643.3	7793.9	8004.1	9221.6	9422.1	10323.5	6385.6
55°	7703.0	7735.0	8013.1	8203.2	8379.2	8272.5	8442.5	9729.4	9946.3	10961.7	6846.3
57.5°	7202.7	7267.6	7749.2	8244.2	8974.1	9016.6	9045.0	10250.5	10445.1	11450.8	7325.7
60°	5938.2	5950.9	6741.2	7590.3	8875.7	9665.9	9924.7	10810.3	10973.6	11906.3	7899.8
62.5°	3777.0	3905.9	4773.0	5971.8	7834.9	9572.0	10988.5	11657.3	11716.9	12452.8	8722.8
65°	1799.0	1882.5	2507.3	3689.7	5675.1	8369.5	11722.9	13189.4	13216.2	13536.0	9822.5
67.5°	996.0	1036.3	1333.8	1986.2	3317.7	5918.9	11426.2	15004.1	15029.4	14642.4	10787.2
69°	779.1	813.4	1047.5	1497.1	2249.3	4254.1	10339.9	15535.6	15611.0	14959.4	10821.6
70°	661.3	694.8	902.1	1264.5	1808.7	3287.1	9203.7	15403.7	15483.4	14929.5	10565.8
72.5°	404.9	424.2	600.9	890.2	1212.2	1653.6	5675.8	13026.9	13161.8	13694.9	9080.7
75°	272.9	283.3	375.8	614.4	867.1	851.4	2948.6	9182.1	9474.4	10653.1	6706.9
77.5°	195.3	205.0	252.0	397.4	607.6	562.1	1335.3	5706.4	5769.0	6389.3	3657.6
80°	111.0	120.1	178.2	236.3	412.3	375.0	530.8	2725.7	2757.0	2739.9	1221.2
82.5°	58.1	65.6	97.6	155.8	264.7	245.3	220.7	912.5	917.0	762.7	267.6
85°	11.2	13.4	48.4	106.6	136.5	106.6	90.2	214.0	218.4	193.1	66.3
87.5°	0.0	0.7	19.4	23.8	26.8	27.6	29.1	41.7	44.7	60.4	17.9
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°	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3
2.5°	1794.5	1767.7	1716.3	1656.6	1610.4	1564.9	1529.1	1491.9	1478.4	1471.7	1470.9
5°	1812.4	1755.8	1646.9	1535.1	1443.3	1356.9	1295.0	1236.1	1208.5	1195.8	1190.6
7.5°	1842.2	1751.3	1576.1	1405.3	1273.4	1165.3	1079.6	1015.4	983.3	969.9	964.7
10°	1877.3	1745.3	1493.4	1268.2	1099.7	987.8	902.9	839.5	804.5	789.5	782.0
12.5°	1918.2	1734.9	1397.9	1129.5	951.3	839.5	736.6	658.3	618.1	600.9	592.7
15°	1969.0	1724.5	1298.0	999.0	820.9	684.4	571.9	518.9	510.7	507.7	508.4
17.5°	2018.9	1708.0	1189.1	870.1	683.7	534.5	477.1	474.2	475.6	475.6	475.6
20°	2063.7	1670.7	1070.6	759.7	553.2	451.1	439.1	433.9	430.2	427.2	423.5
22.5°	2098.7	1620.8	956.5	650.1	451.8	413.0	394.4	378.0	364.6	355.7	351.2
25°	2122.5	1554.5	852.2	545.0	406.3	375.8	342.3	314.6	293.7	281.0	275.8
27.5°	2140.4	1482.9	758.9	456.3	375.0	332.5	288.5	255.7	234.1	222.9	218.4
30°	2153.1	1401.6	677.0	401.1	339.9	287.0	240.1	208.0	192.4	186.4	183.4
32.5°	2165.1	1311.4	599.5	375.0	307.1	245.3	201.3	176.7	167.0	159.6	157.3
35°	2194.9	1227.9	525.6	347.5	273.6	209.5	173.0	155.1	145.4	140.9	139.5
37.5°	2265.7	1166.0	454.8	319.1	240.1	181.2	151.4	138.7	129.8	125.3	123.8
40°	2379.7	1134.7	395.2	288.5	207.3	159.6	137.2	125.3	115.6	108.8	107.3
42.5°	2547.5	1139.2	353.4	257.9	181.2	142.4	123.8	109.5	99.1	93.2	91.7
45°	2751.0	1172.0	324.3	228.1	159.6	129.0	108.8	93.9	84.2	79.0	77.5
47.5°	2971.7	1224.9	300.4	201.3	142.4	116.4	93.9	78.2	70.1	65.6	64.8
50°	3204.3	1276.4	275.8	175.2	127.5	103.6	79.0	64.8	58.1	54.4	52.9
52.5°	3439.9	1336.0	253.5	151.4	114.9	88.7	65.6	52.9	47.7	44.7	43.2
55°	3693.4	1380.7	231.9	132.7	102.1	75.3	54.4	44.0	39.5	35.8	35.0
57.5°	3991.7	1450.0	209.5	114.9	87.2	62.6	44.7	35.0	31.3	27.6	26.8
60°	4394.2	1531.4	185.7	101.4	71.5	51.4	36.5	28.3	23.8	20.9	20.1
62.5°	4925.1	1621.5	155.8	88.7	58.1	41.7	29.1	22.4	17.1	13.4	13.4
65°	5598.3	1768.4	127.5	74.5	47.7	34.3	22.4	16.4	9.7	6.0	6.0
67.5°	5991.2	1793.8	102.8	61.1	38.8	29.1	18.6	11.2	3.0	0.7	0.0
69°	5865.2	1646.9	87.2	52.2	33.5	27.6	17.1	8.2	1.5	0.0	0.0
70°	5628.1	1506.0	76.8	46.2	30.6	26.1	16.4	6.0	1.5	0.0	0.0
72.5°	4650.7	1072.1	58.1	34.3	22.4	23.1	14.9	3.7	1.5	0.0	0.0
75°	3387.8	651.6	41.7	23.8	14.2	17.1	10.4	1.5	0.7	0.0	0.0
77.5°	1884.7	307.1	26.1	13.4	8.9	10.4	5.2	0.0	0.0	0.0	0.0
80°	612.1	83.5	11.9	7.5	5.2	6.0	2.2	0.0	0.0	0.0	0.0
82.5°	113.3	23.8	6.7	3.7	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	24.6	9.7	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.0	0.7	0.0	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)