

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: P324906

Luminaire Tested: **GLEON-SA2A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5738 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

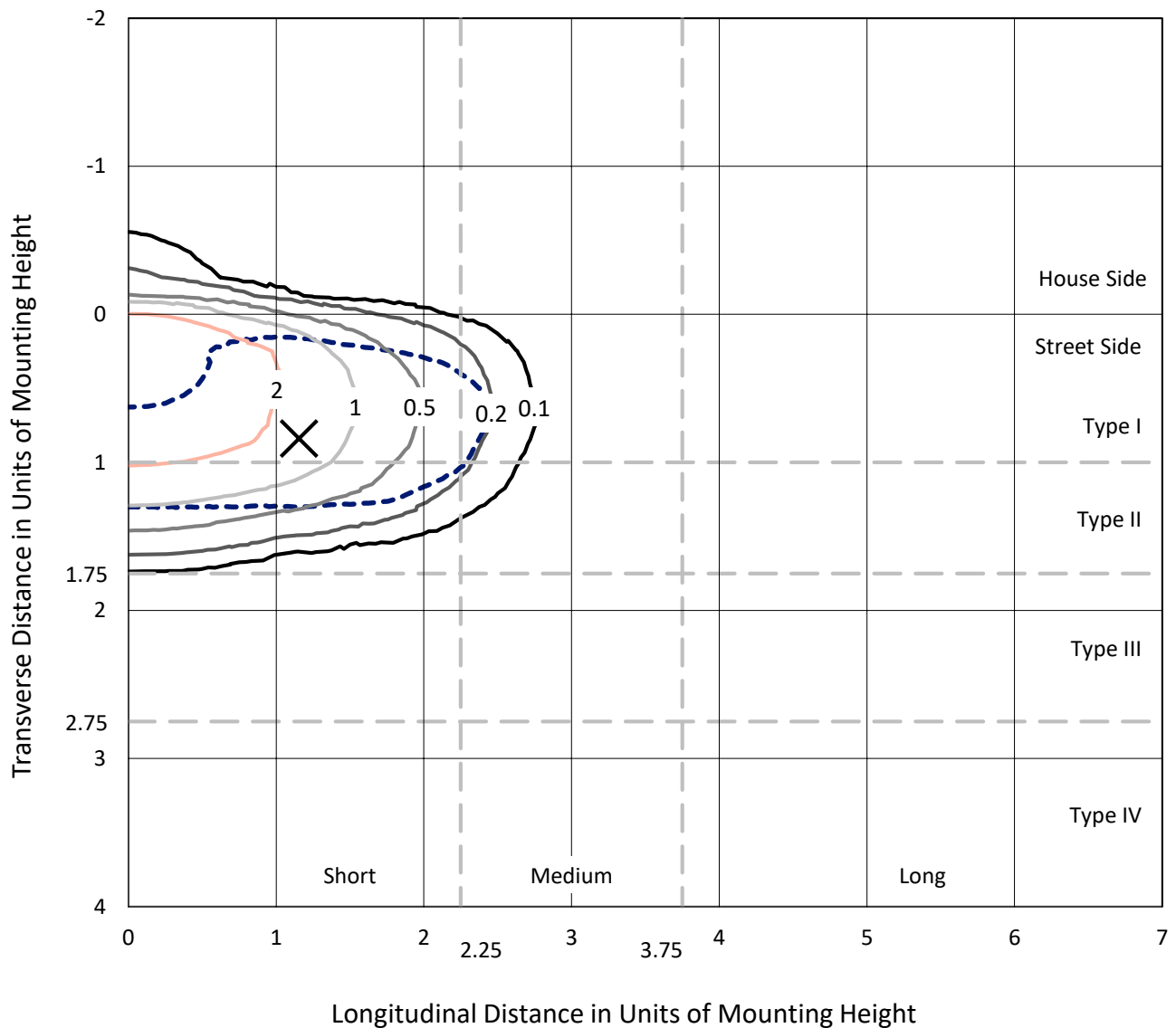
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

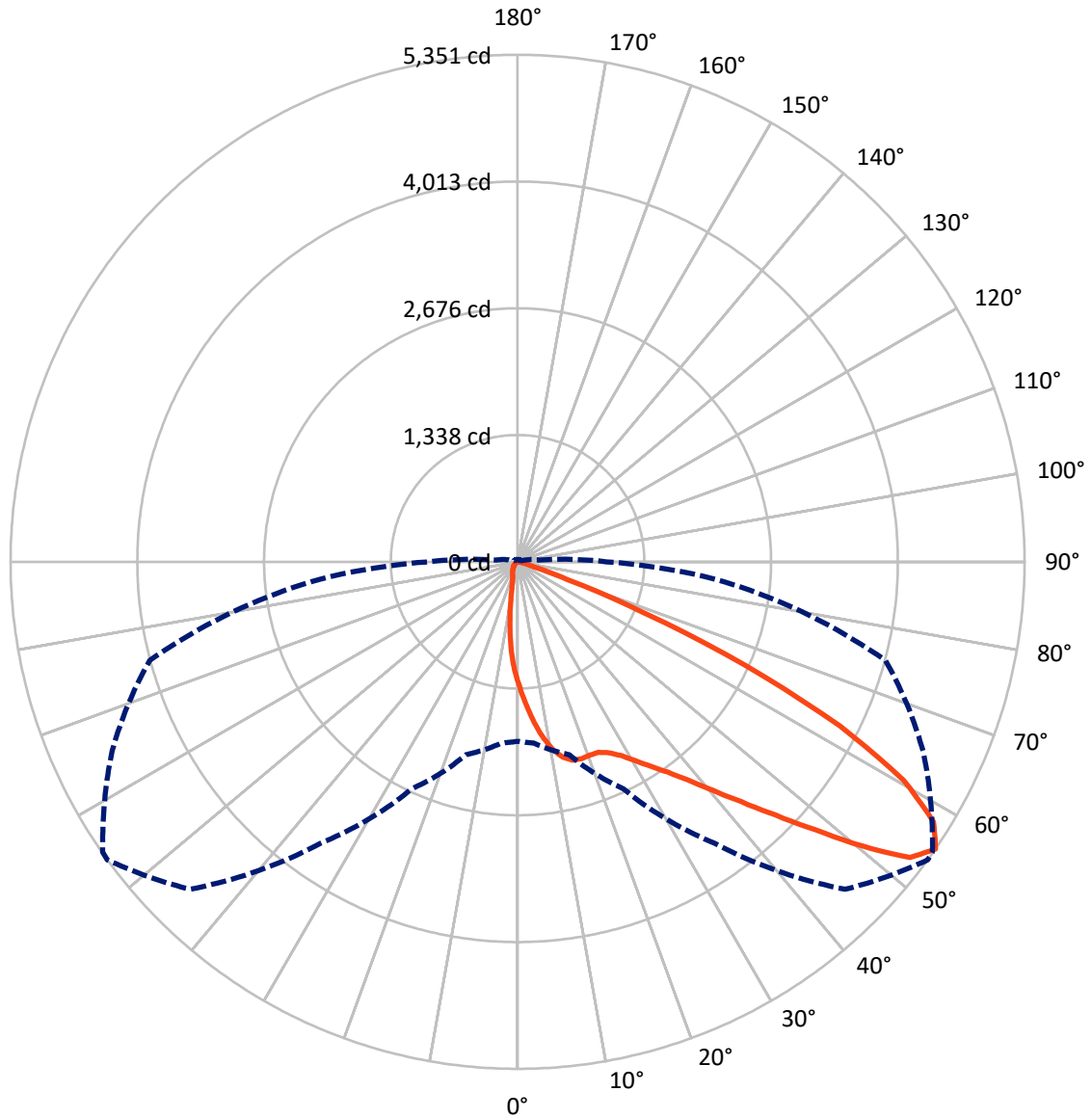
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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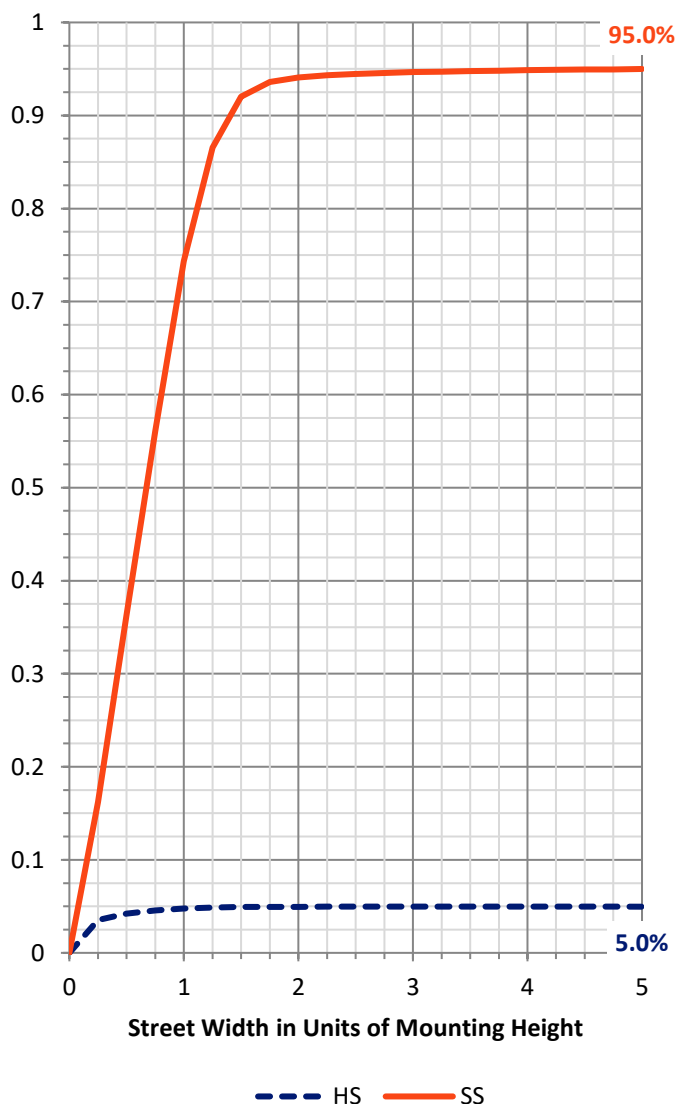
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	286.3	0.0	286.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5451.7	0.0	5451.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	5738.0	0.0	5738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.1
10°-20°	324.6	5.7
20°-30°	554.1	9.7
30°-40°	889.3	15.5
40°-50°	1421.1	24.8
50°-60°	1522.7	26.5
60°-70°	781.8	13.6
70°-80°	118.4	2.1
80°-90°	7.7	0.1
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°	5738.0	100.0
0°-180°	5738.0	100.0

Coefficient of Utilization



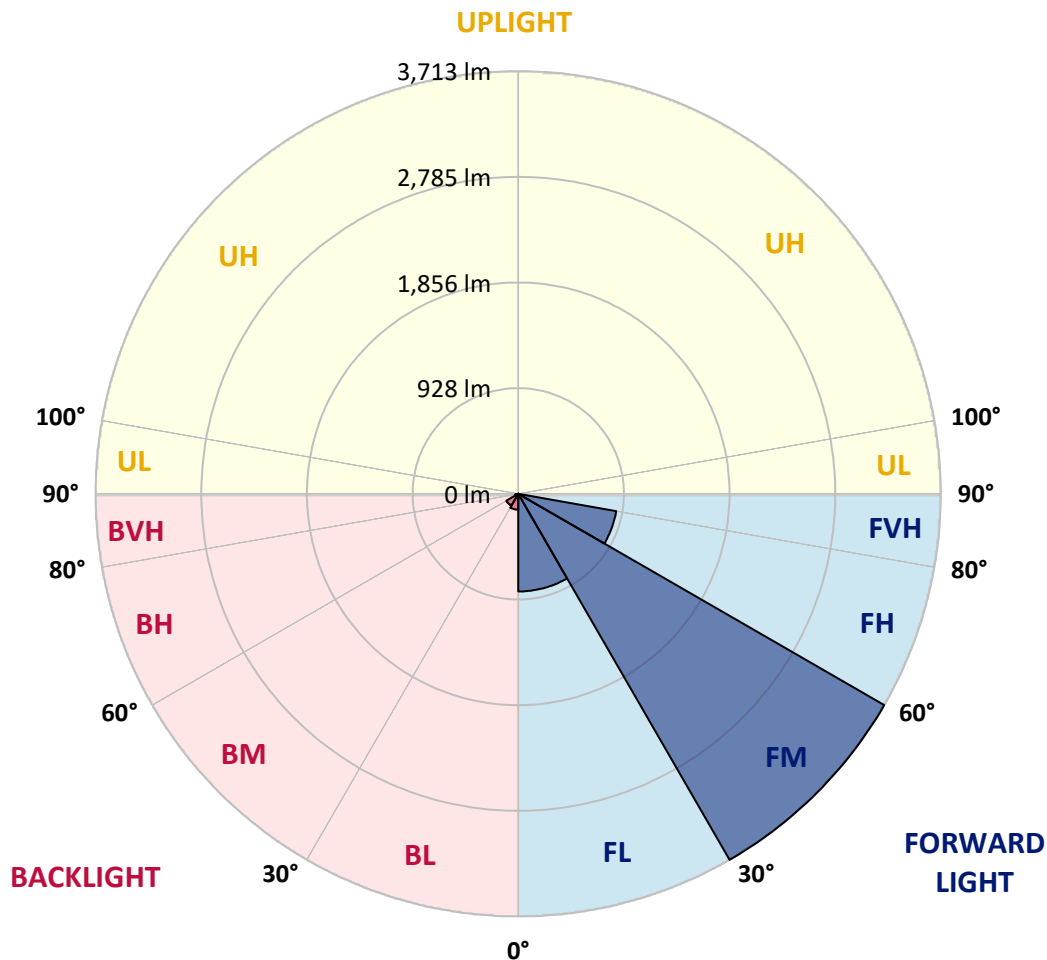
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.7	14.9			
FM (30°-60°)	3712.7	64.7			
FH (60°-80°)	873.8	15.2			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	139.3	2.4	B1/500		
BM (30°-60°)	120.3	2.1	B0/220		
BH (60°-80°)	26.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1
2.5°	1612.7	1588.6	1589.4	1578.5	1538.6	1507.4	1474.9	1467.2	1416.7	1363.6	1312.6
5°	1891.4	1873.9	1869.6	1848.6	1793.1	1734.3	1671.4	1656.8	1557.9	1449.4	1342.6
7.5°	2034.7	2034.9	2031.5	2023.8	1989.1	1932.1	1855.3	1839.9	1705.3	1542.5	1373.8
10°	1993.0	2002.5	2021.8	2047.3	2073.8	2066.6	2008.9	1995.0	1848.8	1641.2	1408.5
12.5°	1895.9	1897.1	1918.7	1960.6	2036.9	2115.2	2116.2	2111.5	1985.9	1744.3	1446.6
15°	1847.6	1852.3	1860.2	1887.2	1959.6	2085.0	2174.7	2181.4	2111.5	1853.8	1487.3
17.5°	1879.3	1886.0	1879.3	1882.5	1924.4	2037.1	2184.8	2201.9	2221.3	1962.1	1525.7
20°	1965.3	1971.5	1959.6	1946.5	1954.6	2023.3	2177.7	2200.7	2307.2	2058.2	1557.9
22.5°	2081.3	2083.7	2065.6	2044.1	2038.1	2070.4	2183.6	2207.4	2376.1	2145.2	1578.2
25°	2208.9	2211.1	2188.6	2163.8	2149.6	2162.8	2232.4	2250.3	2436.8	2228.2	1589.9
27.5°	2347.9	2349.9	2321.6	2291.1	2274.8	2275.3	2312.9	2332.0	2501.5	2322.9	1599.3
30°	2494.8	2493.8	2467.8	2425.4	2404.6	2404.1	2428.9	2448.2	2595.2	2444.3	1612.2
32.5°	2659.9	2657.9	2621.0	2568.4	2544.9	2548.4	2570.4	2581.6	2711.4	2573.6	1635.2
35°	2877.2	2871.5	2815.7	2750.6	2707.2	2706.0	2724.5	2733.5	2859.6	2730.2	1673.6
37.5°	3159.2	3154.0	3078.4	2983.7	2922.8	2900.0	2922.0	2933.4	3071.0	2931.2	1735.3
40°	3437.2	3432.0	3387.2	3300.4	3206.5	3151.7	3169.1	3181.2	3334.9	3175.0	1813.1
42.5°	3629.0	3633.5	3649.1	3656.3	3568.3	3453.3	3461.2	3473.9	3612.2	3435.7	1902.1
45°	3679.6	3689.2	3777.4	3950.6	3983.6	3893.9	3810.9	3817.8	3893.9	3696.4	1991.1
47.5°	3527.7	3545.5	3715.7	4037.9	4316.9	4380.3	4223.2	4214.1	4164.2	3907.3	2054.2
50°	3182.5	3198.8	3419.4	3895.9	4418.0	4844.7	4717.3	4690.3	4401.4	4033.4	2076.5
52.5°	2682.9	2702.7	2881.9	3448.9	4227.4	5051.9	5185.2	5162.6	4575.3	4043.3	2080.3
55°	1894.7	1918.7	2108.3	2643.3	3623.6	4887.1	5351.0	5344.3	4719.8	4017.1	2088.2
57.5°	1064.8	1082.1	1286.6	1694.4	2653.9	4256.7	5177.7	5222.1	4807.0	3971.5	2100.1
60°	472.8	477.5	583.3	843.5	1553.7	3253.1	4681.9	4756.7	4732.2	3910.5	2120.2
62.5°	262.2	258.2	258.2	350.6	675.3	2013.9	3817.8	3941.5	4412.8	3838.4	2121.2
65°	205.4	201.7	191.1	192.5	257.2	893.8	2643.8	2863.6	3806.2	3627.0	2049.8
67.5°	174.2	171.0	160.3	156.1	159.8	294.9	1452.6	1680.8	2888.1	3077.7	1775.5
70°	147.2	145.0	139.5	134.3	124.9	145.7	555.8	710.9	1779.7	2047.3	1212.0
72.5°	118.4	117.5	119.4	115.0	103.6	97.1	190.1	230.2	799.4	913.6	499.3
75°	102.1	101.6	102.6	98.1	85.2	67.6	96.6	105.6	225.5	223.5	101.1
77.5°	66.4	67.2	85.0	83.0	73.3	45.1	50.1	54.0	68.4	51.3	30.7
80°	42.4	41.9	43.1	68.9	65.9	34.4	25.0	26.3	33.0	25.3	14.9
82.5°	25.8	25.3	28.2	32.2	33.2	24.0	15.4	15.6	20.6	16.4	7.9
85°	2.2	3.0	17.1	15.9	11.4	7.4	7.4	7.9	10.9	9.7	4.5
87.5°	0.0	0.0	3.0	4.5	2.5	2.7	2.7	3.0	4.2	4.2	2.2
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°	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1	1285.1
2.5°	1286.1	1260.3	1208.3	1158.2	1115.8	1074.9	1028.4	982.3	960.7	952.0	943.1
5°	1288.3	1235.3	1128.0	1019.9	907.9	807.1	721.1	632.9	588.8	569.4	560.5
7.5°	1291.3	1210.5	1037.0	855.6	675.3	538.5	419.0	342.2	309.0	303.8	290.9
10°	1291.8	1180.5	931.5	674.3	452.7	324.6	249.8	210.1	195.5	193.0	188.8
12.5°	1292.8	1145.1	814.3	499.3	301.8	217.1	180.6	167.5	163.5	163.3	163.3
15°	1295.7	1107.9	692.6	359.8	216.8	172.0	158.6	153.4	151.9	152.6	152.4
17.5°	1295.7	1064.0	573.2	268.1	175.2	154.6	147.2	143.7	143.2	144.0	144.2
20°	1286.3	1010.8	463.6	208.6	155.4	143.5	136.8	133.6	132.3	132.8	133.1
22.5°	1263.8	945.4	374.4	172.7	142.2	133.3	126.1	121.2	119.2	119.4	119.4
25°	1228.6	867.8	292.9	149.4	131.6	122.4	114.0	108.3	107.0	106.8	107.3
27.5°	1183.5	782.1	233.2	131.6	118.9	110.3	101.8	97.1	96.1	96.4	96.6
30°	1139.1	693.1	183.9	116.5	104.8	96.6	90.2	88.0	88.0	88.7	89.0
32.5°	1098.5	607.6	145.5	103.3	92.2	84.7	81.0	80.8	82.0	82.5	82.8
35°	1063.6	528.6	120.4	93.2	82.3	75.8	74.6	75.6	77.1	78.1	78.3
37.5°	1038.8	457.9	105.3	84.7	74.6	69.4	69.1	71.1	73.1	75.3	75.8
40°	1028.4	398.2	94.9	77.3	68.4	64.4	63.7	66.4	70.1	73.3	73.8
42.5°	1019.7	349.4	86.0	70.1	63.4	57.7	57.5	61.0	65.4	68.6	69.4
45°	1012.3	310.2	77.8	62.4	57.0	49.6	50.3	54.8	58.2	61.7	62.4
47.5°	996.9	278.0	68.9	54.3	47.1	42.4	43.9	47.8	50.6	55.8	56.5
50°	969.4	251.8	59.7	44.4	38.4	36.7	38.9	41.6	45.1	49.6	50.1
52.5°	950.8	231.9	51.8	37.2	31.7	32.2	34.4	35.4	37.4	39.2	38.7
55°	940.1	221.0	45.3	32.2	27.0	28.5	29.0	27.8	26.8	25.0	24.3
57.5°	938.9	211.1	40.4	28.0	23.8	24.5	22.8	18.6	15.1	13.1	12.6
60°	936.9	199.0	36.4	23.5	21.1	20.1	16.4	10.2	7.2	6.7	6.7
62.5°	915.4	180.1	33.5	19.8	17.8	15.1	9.4	4.7	4.0	4.2	4.2
65°	846.7	153.9	30.5	16.1	14.1	10.9	4.7	2.7	1.5	1.7	1.7
67.5°	719.9	122.7	27.3	12.4	10.7	6.9	2.7	1.2	0.0	0.0	0.0
70°	482.0	76.1	23.0	8.7	6.9	4.2	2.0	0.2	0.0	0.0	0.0
72.5°	184.9	41.1	18.6	5.2	4.5	3.0	1.2	0.0	0.0	0.0	0.0
75°	41.6	27.0	12.9	3.7	3.2	2.0	0.5	0.0	0.0	0.0	0.0
77.5°	15.9	19.6	7.4	2.5	2.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	7.7	11.6	3.5	1.5	1.2	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	4.5	1.5	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	2.2	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.7	0.2	0.2	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)