

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: P321095

Luminaire Tested: **GLEON-SA1D-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6127 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

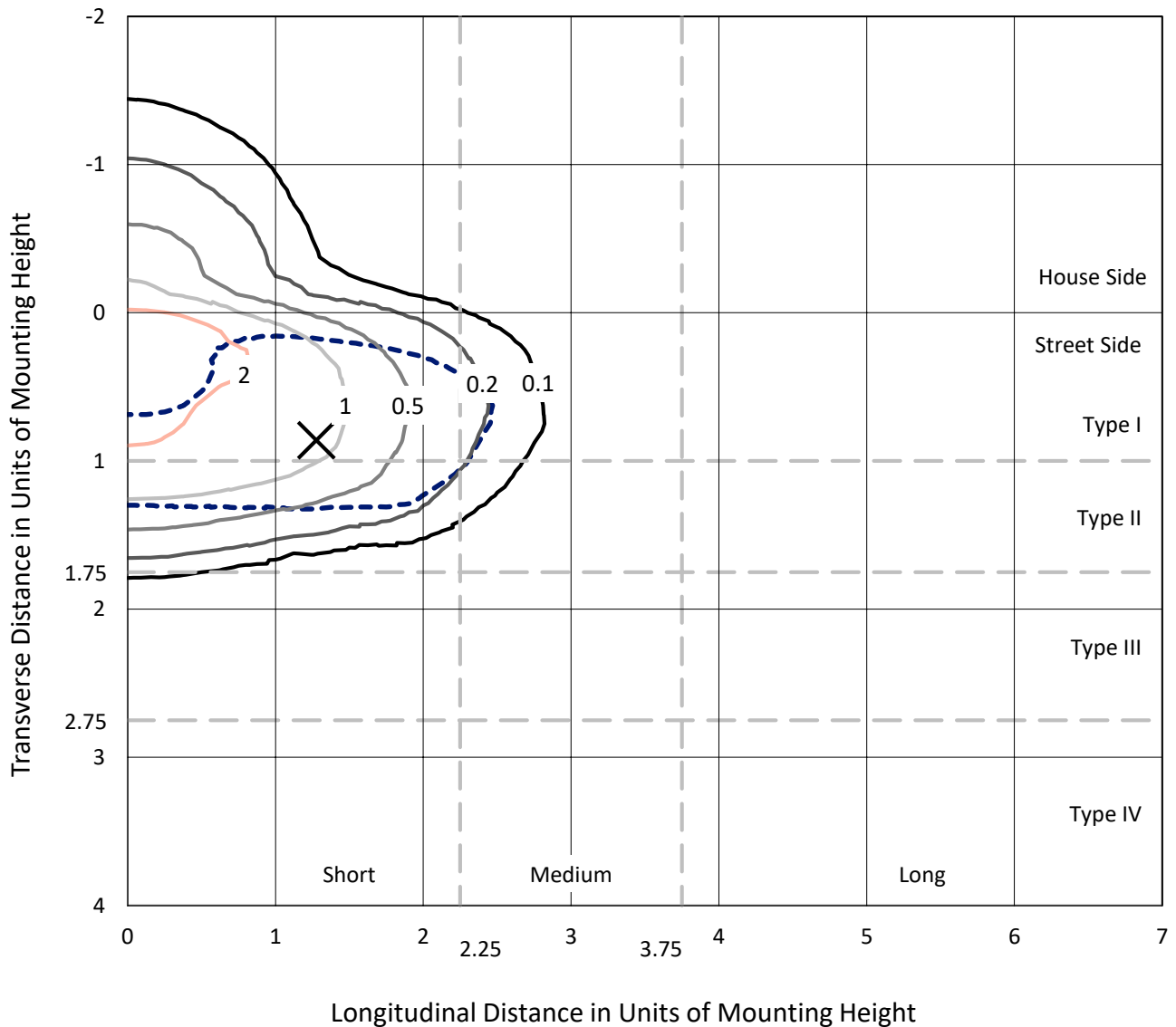
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

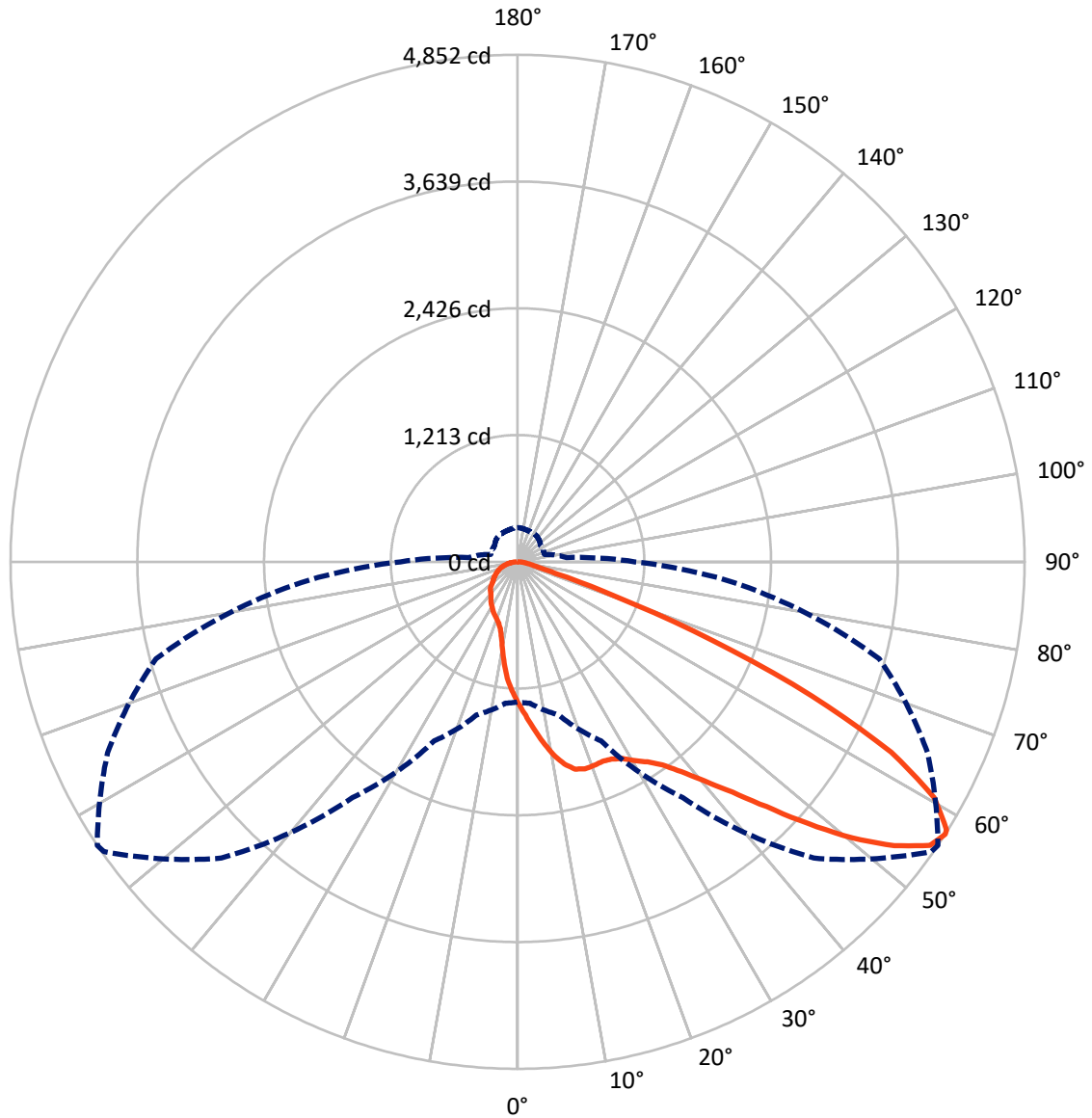
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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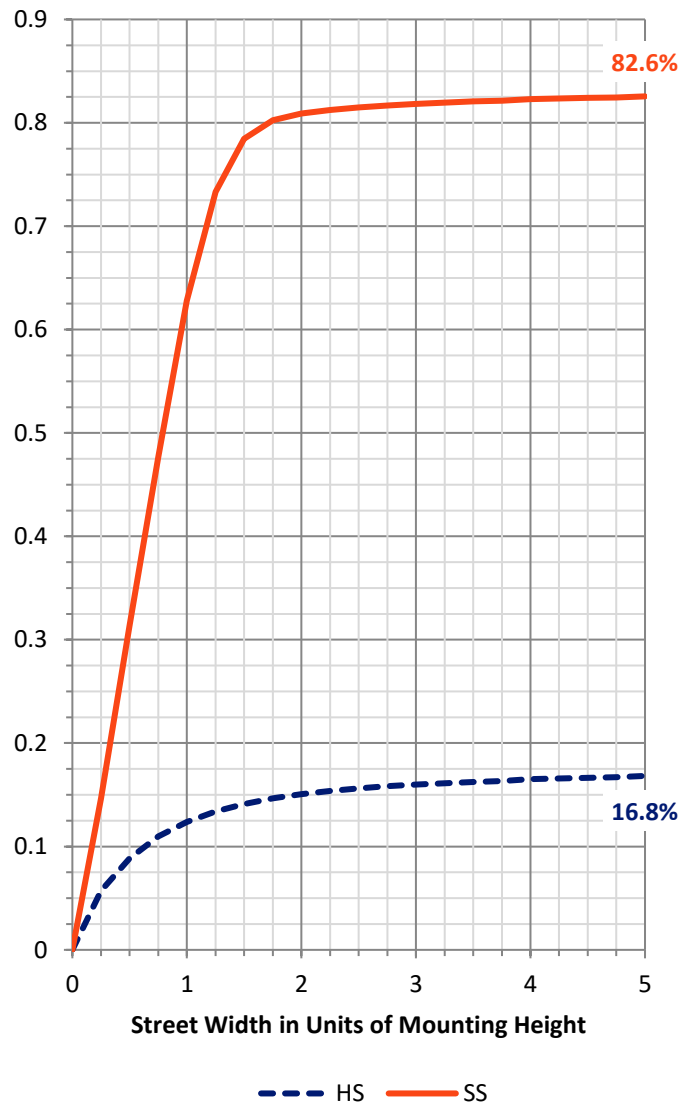
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.2	0.0	1056.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5070.8	0.0	5070.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	6127.0	0.0	6127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	2.1
10°-20°	367.0	6.0
20°-30°	597.8	9.8
30°-40°	893.7	14.6
40°-50°	1355.5	22.1
50°-60°	1519.3	24.8
60°-70°	897.3	14.6
70°-80°	294.0	4.8
80°-90°	72.6	1.2
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°	6127.0	100.0
0°-180°	6127.0	100.0

Coefficient of Utilization



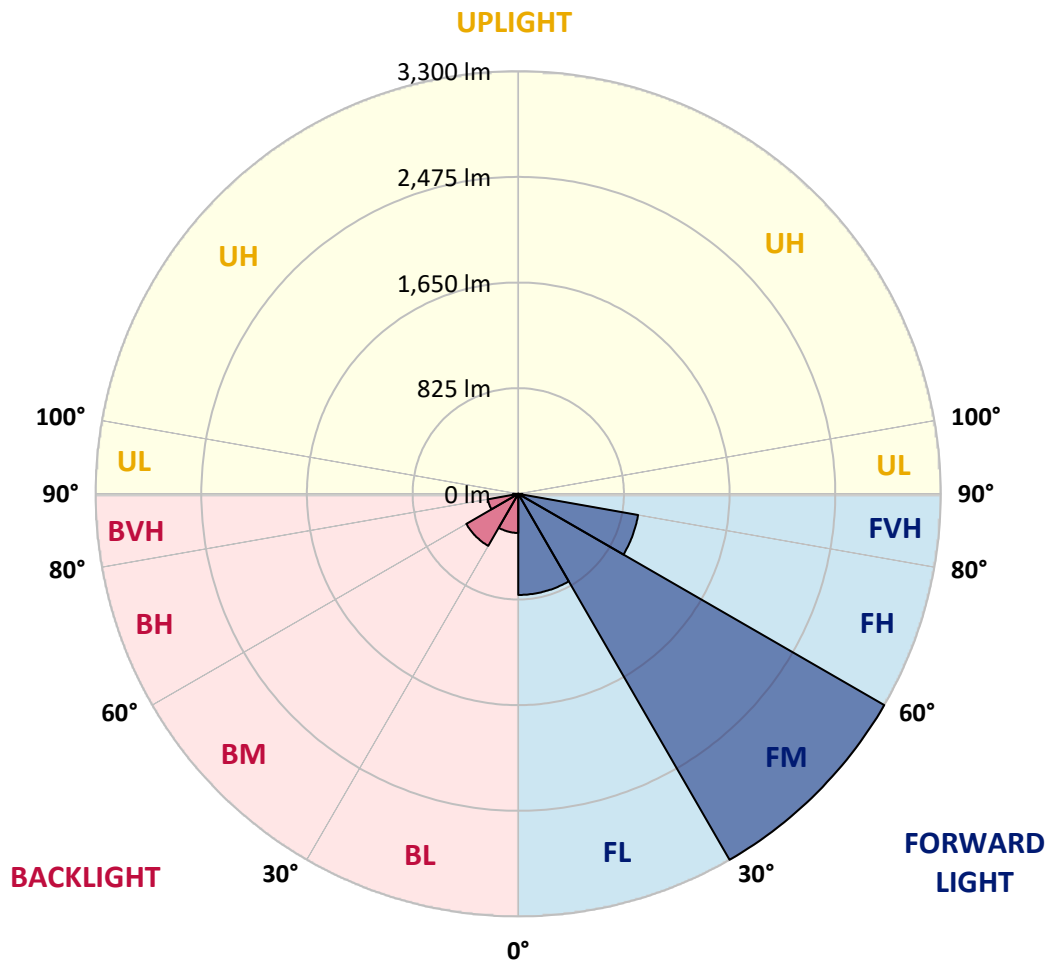
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.2	12.9			
FM (30°-60°)	3299.6	53.9			
FH (60°-80°)	950.0	15.5			G1/1800
FVH (80°-90°)	32.0	0.5			G1/100
BL (0°-30°)	305.4	5.0	B1/500		
BM (30°-60°)	468.8	7.7	B1/1000		
BH (60°-80°)	241.3	3.9	B1/500		G1/500
BVH (80°-90°)	40.7	0.7			G1/100
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°	55°	56°	65°	75°	85°
0°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0
2.5°	1560.5	1574.8	1568.5	1546.6	1529.7	1505.9	1479.4	1471.4	1443.4	1412.0	1374.3
5°	1807.5	1800.3	1790.0	1755.9	1719.9	1678.0	1611.4	1600.9	1538.6	1467.6	1392.7
7.5°	1948.1	1947.5	1941.4	1921.4	1888.5	1833.8	1753.6	1741.1	1647.0	1532.9	1416.7
10°	1927.7	1926.2	1936.3	1957.2	1967.1	1955.7	1888.1	1875.7	1760.1	1605.1	1444.5
12.5°	1811.7	1812.5	1828.7	1872.5	1932.1	2003.7	1992.8	1986.7	1877.4	1686.8	1478.2
15°	1721.4	1723.2	1736.1	1774.2	1844.5	1974.5	2056.4	2058.5	1990.9	1776.9	1517.5
17.5°	1681.8	1685.8	1691.7	1718.4	1782.8	1916.1	2071.5	2082.9	2090.3	1870.4	1555.4
20°	1694.4	1698.2	1699.9	1716.9	1769.8	1880.7	2061.0	2081.4	2166.5	1958.4	1593.3
22.5°	1751.0	1753.4	1754.4	1758.8	1799.9	1890.9	2054.0	2075.5	2221.7	2037.4	1622.0
25°	1845.0	1843.3	1836.5	1830.8	1858.4	1930.9	2070.0	2090.5	2266.5	2109.0	1640.7
27.5°	1957.4	1955.3	1942.2	1926.7	1942.4	1993.2	2116.2	2132.4	2306.7	2176.0	1650.2
30°	2092.4	2086.9	2062.3	2043.7	2049.8	2086.7	2192.2	2206.9	2368.8	2252.0	1659.4
32.5°	2248.4	2242.5	2206.9	2176.2	2176.2	2206.9	2270.5	2282.7	2421.5	2337.9	1674.4
35°	2443.8	2436.4	2390.1	2338.5	2324.0	2339.6	2377.3	2385.9	2516.2	2446.1	1701.6
37.5°	2674.2	2664.3	2604.2	2535.2	2503.4	2502.5	2529.7	2547.4	2667.6	2588.2	1747.7
40°	2905.1	2898.2	2845.8	2791.4	2729.1	2709.1	2751.0	2756.5	2865.6	2764.7	1806.6
42.5°	3083.7	3082.4	3072.7	3079.9	3016.1	2975.7	3008.5	3012.9	3107.3	2955.7	1869.4
45°	3178.0	3180.1	3227.1	3331.1	3354.7	3325.2	3341.4	3342.7	3383.5	3148.3	1926.9
47.5°	3102.4	3113.4	3232.1	3464.8	3657.9	3755.8	3728.9	3744.4	3651.4	3313.8	1971.9
50°	2807.9	2821.3	3023.5	3405.2	3799.4	4172.5	4158.4	4154.8	3867.4	3435.1	1996.3
52.5°	2443.0	2453.5	2620.2	3095.5	3695.6	4402.9	4532.4	4513.8	4059.4	3525.9	2001.0
55°	1887.3	1903.7	2063.5	2477.3	3275.7	4314.9	4807.4	4790.7	4234.4	3573.5	1995.5
57°	1341.7	1359.0	1517.7	1890.6	2755.6	4010.2	4834.7	4852.4	4329.0	3581.5	2001.6
57.5°	1197.3	1214.9	1372.2	1734.4	2593.5	3900.0	4811.2	4840.6	4346.0	3580.2	2005.0
60°	602.8	609.6	709.8	968.2	1639.4	3153.0	4503.5	4579.5	4361.4	3518.3	2019.5
62.5°	374.8	370.0	366.8	446.0	797.6	2090.9	3868.7	4015.0	4067.2	3368.4	1984.3
65°	329.5	320.5	285.7	279.4	352.3	1015.5	2913.4	3095.5	3438.7	3132.1	1900.5
67.5°	309.5	300.7	261.5	237.9	238.1	402.6	1808.7	2013.8	2678.8	2732.7	1702.8
70°	288.9	280.9	244.3	216.5	202.8	223.0	832.1	987.8	1746.2	2148.0	1423.2
72.5°	262.4	256.9	222.1	193.5	179.0	167.0	318.6	376.3	1010.9	1442.6	988.4
75°	234.6	229.5	199.8	172.5	154.8	131.4	179.4	193.3	513.6	738.0	486.6
77.5°	204.0	201.1	177.7	152.4	138.3	108.9	127.0	133.7	220.2	316.5	244.0
80°	162.3	168.0	155.4	135.8	122.8	87.2	89.9	94.3	128.2	154.6	138.6
82.5°	105.7	115.6	121.7	110.3	101.1	68.6	64.6	66.5	83.6	94.3	60.2
85°	44.0	49.5	80.0	72.2	67.2	50.1	43.4	44.2	51.8	53.7	24.6
87.5°	19.6	20.8	35.2	33.1	28.4	17.3	18.5	20.2	27.6	26.1	9.5
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°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0
2.5°	1360.2	1342.6	1312.2	1278.7	1251.4	1229.5	1207.4	1192.2	1174.5	1165.0	1160.2
5°	1361.3	1326.5	1262.7	1197.3	1138.7	1085.2	1034.3	995.1	958.5	938.7	933.2
7.5°	1365.7	1313.5	1210.3	1102.5	998.5	903.5	830.3	784.3	751.3	736.5	732.3
10°	1369.3	1298.1	1145.5	985.9	844.4	748.1	691.3	665.6	654.2	652.3	650.4
12.5°	1377.7	1282.3	1077.2	864.2	724.5	658.0	638.2	636.5	639.7	644.3	644.3
15°	1391.0	1266.7	999.3	759.7	648.3	625.0	629.0	638.2	646.8	654.0	655.1
17.5°	1400.7	1247.6	915.5	676.1	607.7	614.0	628.3	641.4	650.2	657.2	657.8
20°	1407.6	1217.9	826.0	612.3	584.3	603.9	621.8	633.4	639.5	646.4	647.5
22.5°	1404.0	1178.1	746.7	566.6	565.4	589.2	606.2	620.1	615.5	608.7	613.2
25°	1386.8	1123.4	665.0	532.5	545.4	569.4	590.4	581.2	565.6	562.6	564.3
27.5°	1356.0	1053.4	589.4	500.9	522.2	551.0	549.8	540.5	535.0	531.3	533.6
30°	1323.0	977.6	523.2	473.3	496.5	520.3	515.5	515.2	509.8	503.7	506.6
32.5°	1290.3	901.4	470.8	450.6	477.1	480.3	490.8	494.0	483.2	470.4	469.6
35°	1261.9	829.4	431.0	430.0	453.8	454.2	469.6	465.1	438.4	425.1	425.1
37.5°	1240.6	757.6	400.7	411.4	423.0	434.0	441.8	423.4	419.0	411.7	411.4
40°	1231.4	694.4	381.8	397.3	401.3	415.2	395.2	402.4	404.5	400.7	400.7
42.5°	1221.7	639.5	365.3	386.6	386.0	384.1	374.0	383.2	391.6	391.9	391.2
45°	1212.0	592.1	350.8	363.6	372.5	352.1	354.0	363.9	375.6	379.9	379.9
47.5°	1201.3	554.6	337.5	339.4	353.1	339.4	338.0	345.5	359.4	366.2	367.6
50°	1177.7	520.9	322.4	318.2	322.0	326.6	327.8	331.4	346.8	357.5	360.1
52.5°	1145.0	490.8	303.0	298.6	298.6	316.1	322.0	323.0	336.1	348.9	351.4
55°	1117.9	471.7	283.0	282.2	281.3	304.9	315.0	316.7	325.7	335.8	337.1
57°	1119.8	470.2	267.6	268.5	268.3	293.5	308.5	312.1	316.7	325.3	326.8
57.5°	1120.8	471.2	264.3	264.7	264.5	290.4	306.6	310.6	314.2	323.2	324.7
60°	1136.6	474.0	250.6	245.9	247.0	273.5	295.8	300.9	303.2	315.2	317.1
62.5°	1113.2	461.8	239.6	228.5	228.5	255.8	280.9	288.9	292.5	308.7	311.8
65°	1045.4	427.4	226.8	208.7	210.8	238.1	263.0	276.0	281.5	301.7	305.1
67.5°	940.8	387.6	213.1	191.0	193.1	219.6	244.5	258.6	267.2	294.2	296.9
70°	804.6	339.0	194.6	172.2	174.8	199.4	222.6	238.6	251.4	287.0	287.8
72.5°	593.2	277.9	168.7	151.6	154.3	175.8	200.5	219.0	236.3	269.1	268.7
75°	352.7	217.3	140.0	130.8	132.7	152.7	180.5	203.0	228.9	262.2	266.2
77.5°	213.9	163.6	114.1	109.5	111.8	132.2	166.1	190.1	225.7	247.2	245.9
80°	129.3	116.9	91.2	88.2	90.5	113.1	153.7	180.5	197.3	211.2	211.2
82.5°	67.6	71.4	67.0	64.6	67.8	91.8	139.8	157.5	174.3	149.7	139.8
85°	27.6	37.3	40.6	40.4	42.3	63.6	120.7	134.8	112.4	106.8	109.3
87.5°	9.3	15.8	19.8	17.1	17.9	40.0	83.6	65.1	77.3	53.9	51.2
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)