

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: P318515

Luminaire Tested: **GLEON-SA1B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

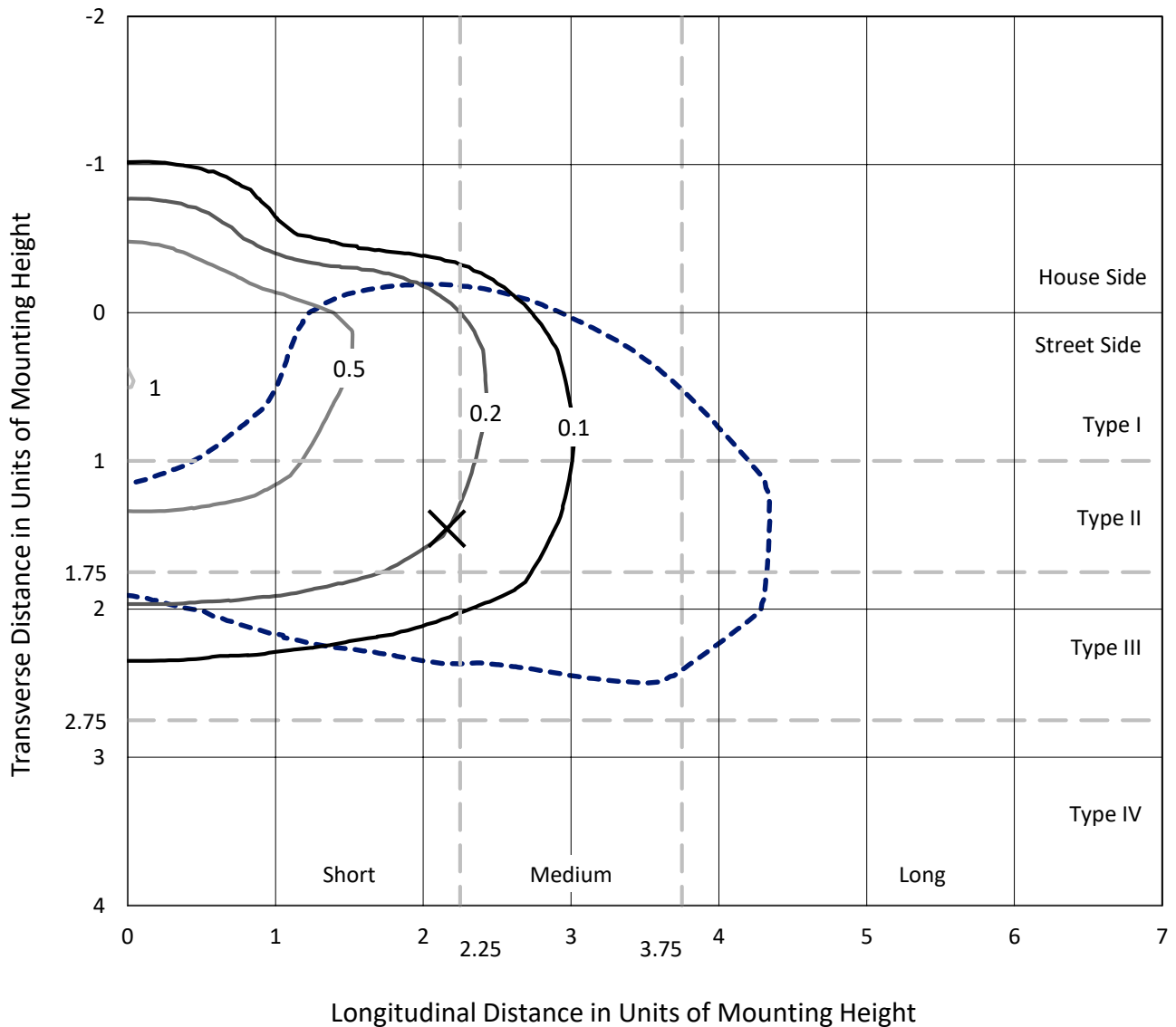
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318515
 CATALOG NUMBER: GLEON-SA1B-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

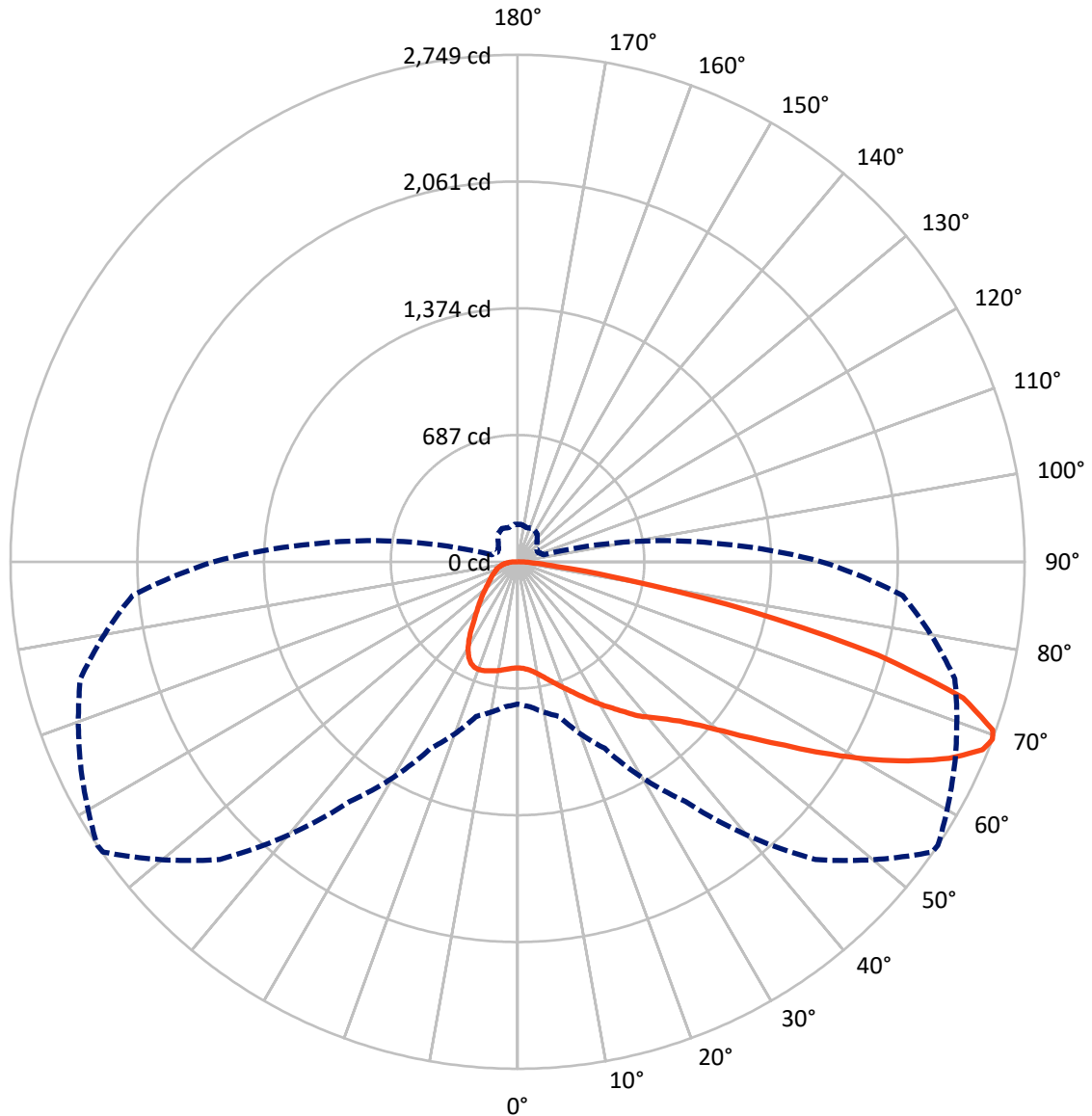
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

REPORT NUMBER: P318515
CATALOG NUMBER: GLEON-SA1B-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P318515
 CATALOG NUMBER: GLEON-SA1B-827-U-T3

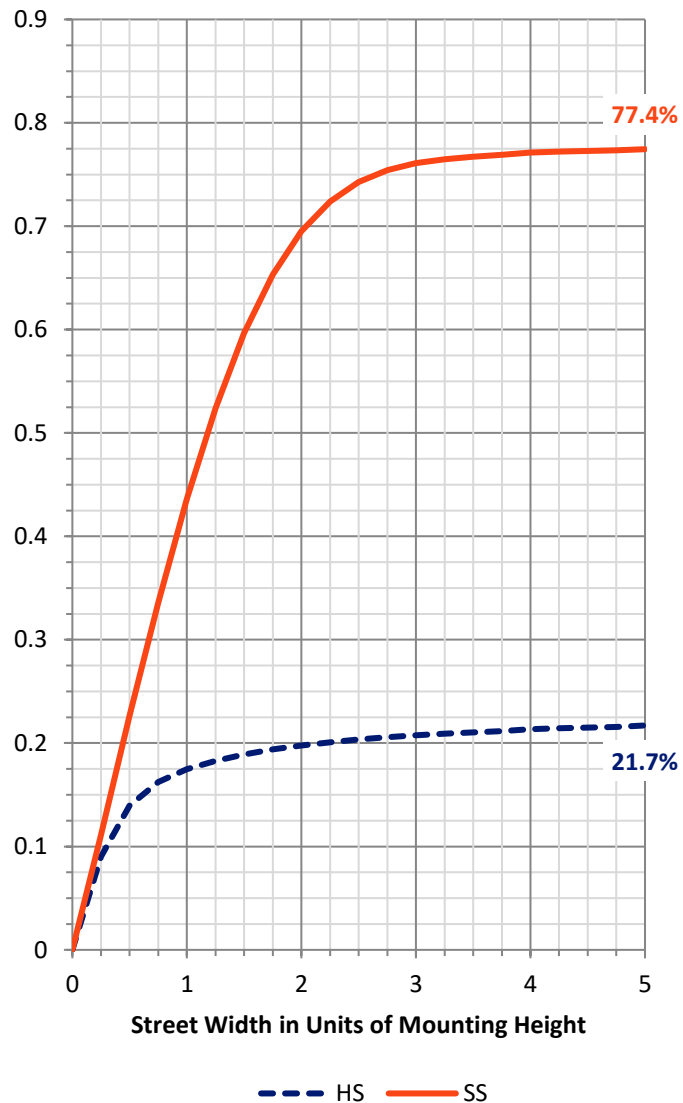
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.9	0.0	979.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3420.1	0.0	3420.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	4400.0	0.0	4400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.3
10°-20°	181.7	4.1
20°-30°	317.1	7.2
30°-40°	455.5	10.4
40°-50°	630.4	14.3
50°-60°	923.7	21.0
60°-70°	1126.2	25.6
70°-80°	622.6	14.2
80°-90°	86.2	2.0
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°	4400.0	100.0
0°-180°	4400.0	100.0

Coefficient of Utilization

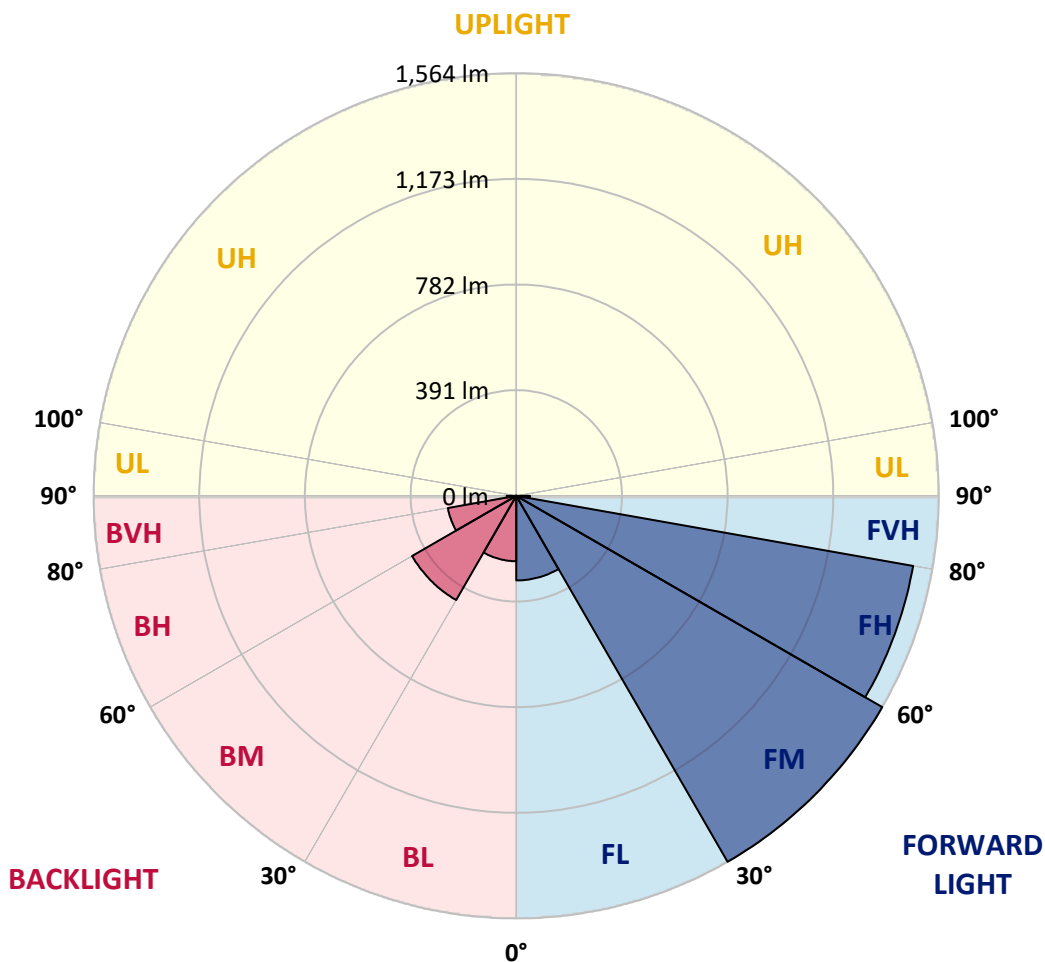


REPORT NUMBER: P318515
 CATALOG NUMBER: GLEON-SA1B-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.1	7.1			
FM (30°-60°)	1564.4	35.6			
FH (60°-80°)	1491.8	33.9			G1/1800
FVH (80°-90°)	50.8	1.2			G1/100
BL (0°-30°)	242.2	5.5	B1/500		
BM (30°-60°)	445.3	10.1	B1/1000		
BH (60°-80°)	257.0	5.8	B1/500		G1/500
BVH (80°-90°)	35.4	0.8			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 III Short





REPORT NUMBER: P318515
 CATALOG NUMBER: GLEON-SA1B-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.9	579.5	579.0	580.2	578.9	579.8	579.0	579.0	578.6	577.2	575.7
5°	588.0	589.2	588.4	589.6	588.0	588.3	586.9	586.9	585.5	582.7	579.6
7.5°	602.2	603.6	603.0	604.2	601.9	601.9	600.1	599.9	597.2	592.5	589.0
10°	619.2	621.0	620.4	622.2	620.4	621.0	619.2	619.2	615.6	608.9	604.5
12.5°	643.9	646.2	644.5	644.4	643.6	644.8	643.3	643.0	639.7	630.6	624.5
15°	676.9	679.4	675.9	675.6	671.3	670.9	670.9	670.4	668.3	657.4	647.4
17.5°	715.0	715.7	712.7	707.9	702.4	698.9	698.5	699.7	699.7	686.9	671.0
20°	752.3	753.6	751.2	745.8	738.8	733.6	730.0	732.4	732.3	717.1	694.5
22.5°	792.9	796.1	792.4	785.5	777.3	771.5	765.2	767.3	767.4	748.8	717.6
25°	845.5	842.6	840.3	830.5	818.8	812.9	807.0	809.1	808.5	782.9	741.4
27.5°	892.0	892.6	889.6	879.1	865.7	852.6	852.3	853.7	851.4	818.4	763.8
30°	946.1	946.4	942.2	932.8	918.1	901.3	897.3	899.6	894.8	852.0	787.4
32.5°	1000.0	1001.5	996.8	985.4	973.6	953.1	945.2	946.7	934.6	886.4	811.8
35°	1047.1	1049.2	1047.7	1040.1	1027.2	1009.7	1000.3	999.3	984.3	928.6	844.1
37.5°	1095.1	1097.1	1095.4	1089.1	1083.9	1065.3	1060.3	1060.3	1034.2	971.6	885.2
40°	1144.6	1147.6	1145.6	1136.8	1132.4	1123.9	1112.0	1109.1	1080.9	1023.3	952.2
42.5°	1190.5	1194.4	1202.3	1197.2	1188.2	1189.4	1165.3	1163.8	1143.2	1099.7	1036.3
45°	1255.7	1261.4	1274.8	1270.8	1269.0	1262.3	1233.7	1232.3	1224.4	1202.5	1140.8
47.5°	1326.8	1334.6	1358.7	1359.5	1379.0	1366.5	1327.5	1322.8	1324.6	1325.5	1268.2
50°	1392.2	1400.9	1440.4	1459.1	1505.2	1507.9	1445.6	1441.3	1448.5	1469.4	1416.8
52.5°	1444.5	1455.4	1504.9	1562.5	1641.4	1663.9	1590.9	1587.8	1593.1	1629.1	1584.7
55°	1482.9	1494.7	1548.5	1653.4	1779.5	1819.1	1758.3	1755.3	1758.6	1804.5	1767.4
57.5°	1491.8	1494.7	1572.8	1714.6	1896.1	1991.1	1963.1	1957.0	1940.6	1980.7	1969.0
60°	1449.8	1461.4	1552.8	1736.2	1986.3	2160.7	2177.1	2169.5	2123.6	2156.3	2146.9
62.5°	1364.6	1385.3	1478.0	1703.4	2021.6	2299.3	2387.0	2377.9	2298.8	2320.0	2274.9
65°	1225.5	1234.3	1331.8	1590.5	1976.7	2387.9	2574.2	2569.7	2470.1	2436.9	2298.5
67.5°	976.6	993.1	1075.9	1354.5	1793.2	2377.5	2719.0	2718.5	2582.0	2480.3	2214.7
69°	771.5	788.7	867.5	1115.8	1586.7	2281.8	2743.2	2748.5	2613.5	2453.9	2094.9
70°	615.1	635.0	689.1	939.8	1403.4	2155.7	2723.1	2732.6	2607.4	2410.4	1984.4
72.5°	261.8	277.8	316.3	484.4	855.3	1609.7	2489.8	2525.9	2466.9	2206.0	1640.1
75°	114.3	119.3	136.7	197.5	379.7	876.1	1950.5	2017.2	2109.3	1864.7	1221.7
77.5°	83.7	85.8	95.3	116.0	170.4	330.9	1254.3	1293.1	1521.2	1356.9	749.4
80°	64.7	66.2	73.7	85.2	111.3	133.8	572.1	605.4	855.3	696.9	312.1
82.5°	51.5	52.6	57.8	62.8	76.8	81.1	189.9	210.7	315.7	192.5	82.6
85°	47.9	49.1	50.9	45.8	49.3	47.6	82.2	85.9	95.3	75.6	34.6
87.5°	21.7	25.6	50.5	35.6	26.2	20.9	33.7	35.2	39.6	39.7	15.3
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: P318515
 CATALOG NUMBER: GLEON-SA1B-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	576.6	576.1	576.9	575.1	577.4	577.2	576.4	576.7	578.3	578.1	578.3
5°	580.1	579.8	580.7	579.3	582.1	583.0	583.1	584.5	586.1	586.6	586.6
7.5°	588.9	588.9	589.3	587.5	589.3	589.2	588.4	589.8	591.5	591.6	591.5
10°	604.0	604.2	603.4	598.7	597.2	593.1	589.3	589.5	591.6	593.3	593.7
12.5°	623.1	622.5	619.2	610.6	604.2	595.8	591.9	591.8	593.9	595.2	595.7
15°	645.0	643.3	634.7	620.6	609.3	601.2	594.8	593.3	592.1	590.5	590.7
17.5°	665.6	661.8	647.4	627.8	616.0	605.1	592.8	583.0	576.1	572.2	571.0
20°	686.5	679.1	658.3	634.7	619.6	599.8	576.1	556.1	543.7	537.9	536.9
22.5°	705.6	693.6	668.5	641.8	616.8	581.9	544.8	515.7	498.4	490.7	491.3
25°	724.2	707.6	679.1	646.8	602.2	550.4	501.1	465.3	445.3	436.7	436.4
27.5°	740.6	721.7	690.6	642.7	575.1	505.5	449.4	414.6	397.9	390.5	389.2
30°	759.4	739.4	705.9	627.1	535.4	453.7	399.0	374.4	362.6	355.1	353.8
32.5°	782.3	763.5	718.5	598.7	484.6	399.6	359.5	342.4	331.6	323.3	321.8
35°	815.6	795.3	721.7	558.1	428.8	356.8	330.6	313.0	298.5	287.7	286.6
37.5°	857.5	835.2	714.4	505.5	374.7	329.1	306.5	284.8	265.9	250.7	248.3
40°	917.8	884.1	694.2	444.9	334.8	307.7	283.0	258.3	234.8	217.1	213.6
42.5°	990.3	941.6	663.3	384.6	305.6	286.0	259.7	229.0	206.6	194.0	192.2
45°	1082.4	1001.3	620.4	331.8	276.8	264.3	234.5	206.3	192.4	183.1	181.6
47.5°	1187.6	1068.3	575.4	288.9	252.4	244.0	214.3	196.1	185.1	177.8	176.4
50°	1316.9	1143.9	527.6	253.7	227.8	219.6	204.8	190.5	181.7	176.1	174.8
52.5°	1462.7	1229.3	493.2	226.0	207.5	201.6	199.8	187.5	180.4	176.1	174.8
55°	1619.7	1316.1	456.1	202.7	189.9	191.6	196.4	187.8	183.0	177.8	175.8
57.5°	1776.9	1405.9	414.7	183.0	176.0	184.2	194.2	188.4	184.3	179.3	177.5
60°	1901.2	1462.7	350.6	166.4	164.9	176.0	188.7	183.9	178.6	178.7	178.4
62.5°	1959.3	1459.7	279.8	151.7	153.9	164.9	179.9	176.7	172.3	178.3	178.7
65°	1926.7	1386.9	217.8	138.4	142.0	153.4	170.8	173.3	174.8	186.1	187.7
67.5°	1790.0	1245.4	168.7	126.7	131.3	145.5	171.7	188.7	190.7	202.7	202.5
69°	1648.5	1112.6	146.6	120.7	126.0	147.5	183.6	198.6	191.1	203.9	202.1
70°	1530.0	1007.5	134.8	116.6	123.5	151.0	191.4	198.4	188.9	199.8	196.7
72.5°	1178.4	724.8	114.3	109.0	115.3	144.5	193.7	194.0	183.6	185.7	180.5
75°	808.2	458.1	99.7	98.7	102.9	130.2	186.4	185.4	169.8	166.7	162.5
77.5°	445.6	232.7	84.7	88.8	91.7	115.3	169.5	167.9	155.1	148.7	147.2
80°	171.9	101.9	71.5	79.0	80.8	99.9	148.5	147.2	136.4	128.2	126.0
82.5°	64.9	53.4	59.1	68.4	67.8	82.5	125.8	125.1	114.6	102.6	99.0
85°	30.0	32.0	46.8	56.4	52.0	61.1	100.6	102.0	89.3	75.0	75.0
87.5°	12.7	17.9	33.2	42.6	35.0	41.2	73.8	70.5	64.7	44.9	42.1
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)