

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: P323005

Luminaire Tested: **GLEON-SA1C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

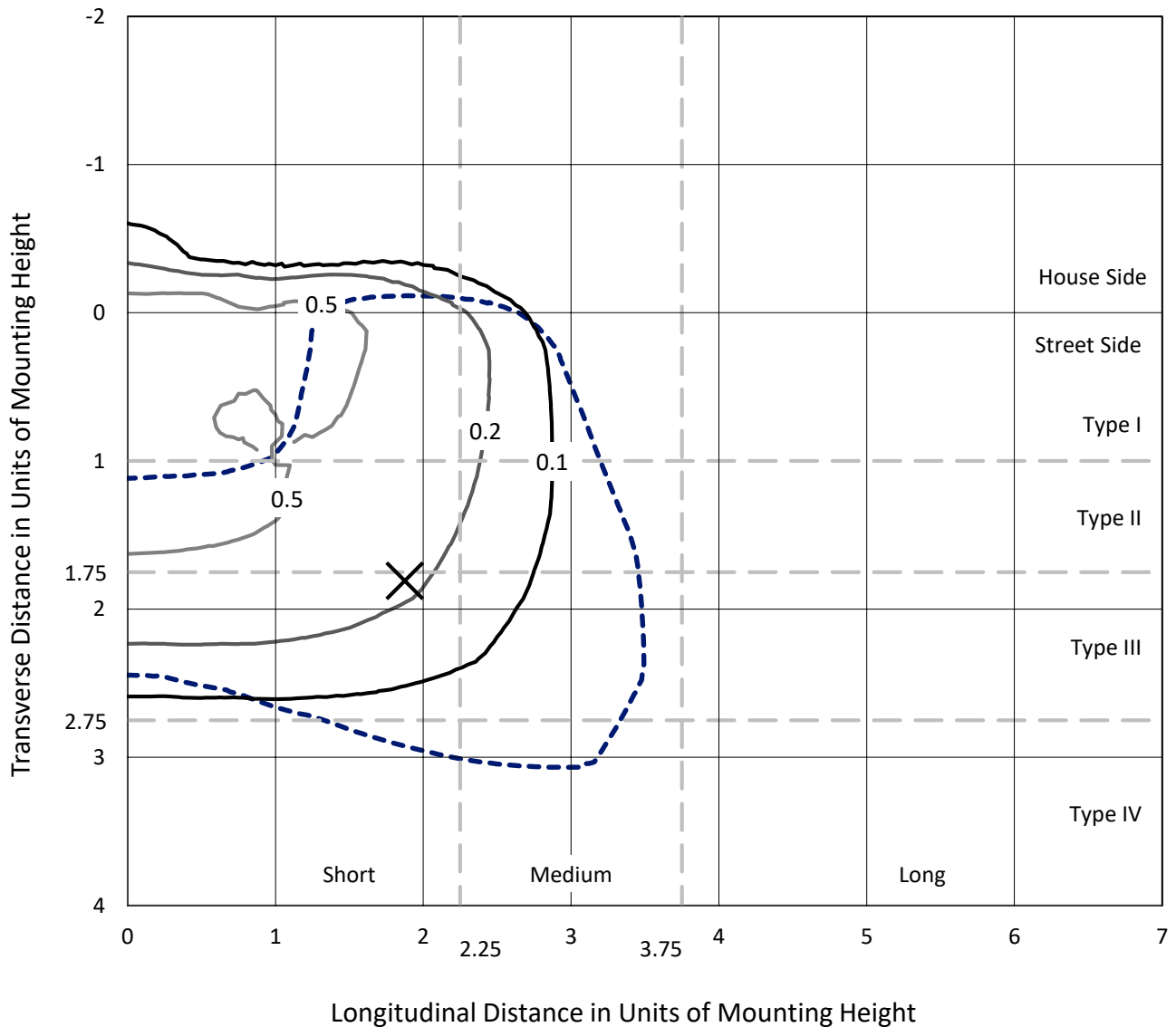
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323005
 CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

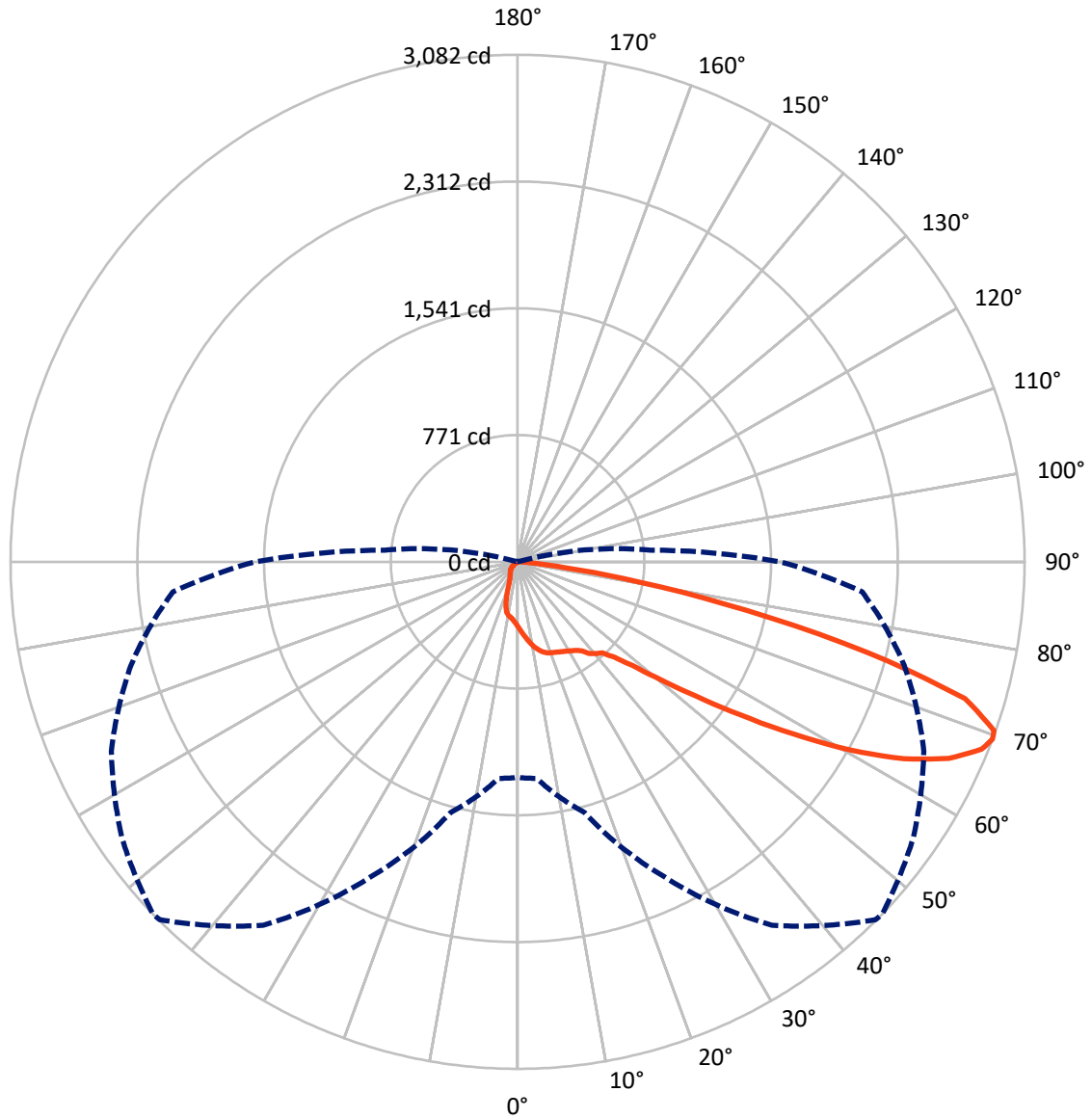
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P323005
CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323005
 CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

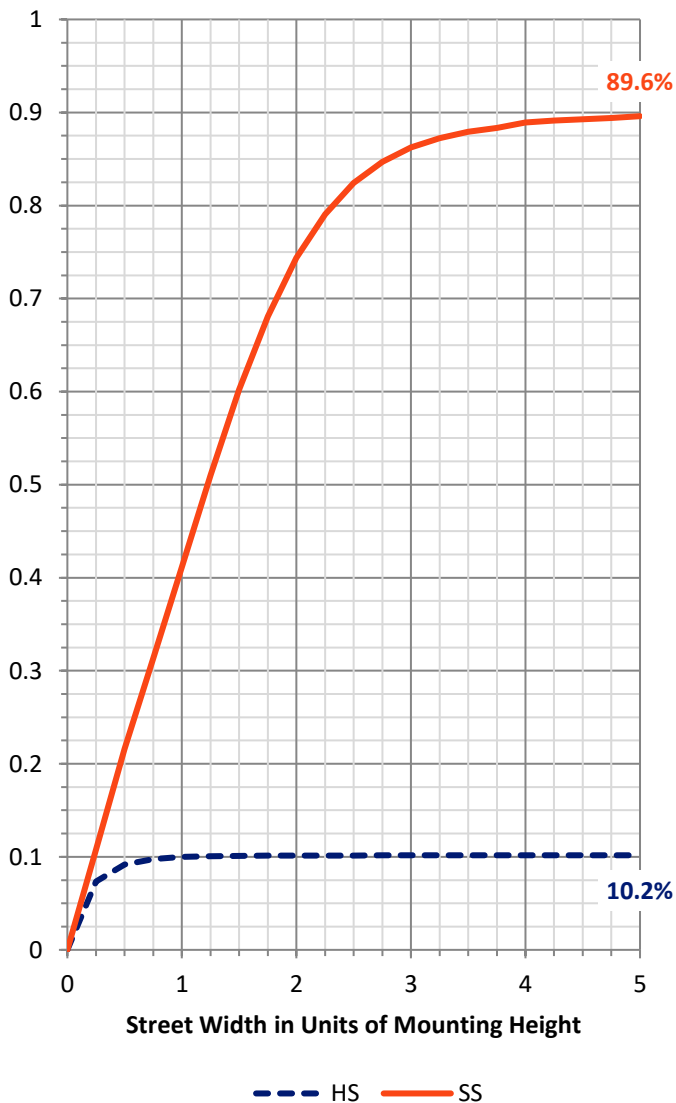
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.0	0.0	405.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3541.0	0.0	3541.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	3946.0	0.0	3946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	1.0
10°-20°	119.4	3.0
20°-30°	187.8	4.8
30°-40°	269.2	6.8
40°-50°	465.4	11.8
50°-60°	919.4	23.3
60°-70°	1284.9	32.6
70°-80°	620.7	15.7
80°-90°	39.9	1.0
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°	3946.0	100.0
0°-180°	3946.0	100.0



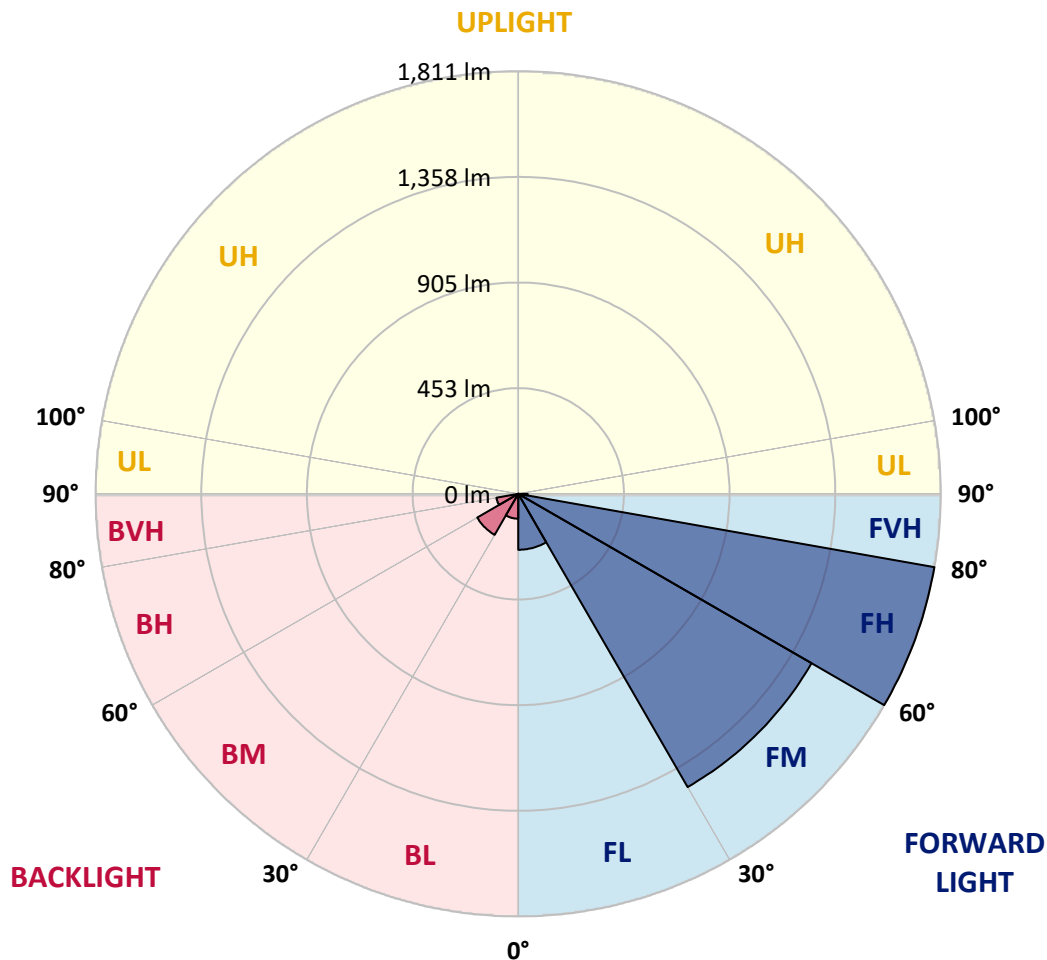
REPORT NUMBER: P323005
 CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.8	6.1			
FM (30°-60°)	1451.0	36.8			
FH (60°-80°)	1810.7	45.9			G2/5000
FVH (80°-90°)	39.6	1.0			G1/100
BL (0°-30°)	106.7	2.7	B0/110		
BM (30°-60°)	202.9	5.1	B0/220		
BH (60°-80°)	95.0	2.4	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: B0-U0-G2

Type IV Short





REPORT NUMBER: P323005

CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4
2.5°	439.2	438.7	436.1	435.0	428.7	425.0	423.5	418.9	412.2	405.6	398.1
5°	489.2	489.0	484.2	479.6	467.7	456.6	454.6	443.8	428.9	414.8	400.7
7.5°	540.2	537.8	533.0	524.1	506.9	489.2	487.5	472.3	451.1	430.7	410.5
10°	583.5	582.1	575.8	562.3	542.1	521.9	519.9	501.2	477.2	452.2	426.5
12.5°	617.2	616.1	607.8	590.9	569.5	548.6	545.8	529.1	503.4	475.5	445.1
15°	637.7	637.2	627.0	609.1	588.0	569.8	567.4	552.8	529.0	499.7	465.5
17.5°	642.6	642.7	632.2	614.1	596.7	583.7	581.9	570.8	550.8	521.7	485.8
20°	631.8	634.0	624.6	608.9	598.1	591.3	589.8	583.2	566.3	538.9	502.1
22.5°	616.7	617.8	611.3	600.7	596.3	597.6	596.9	593.2	578.9	553.7	518.2
25°	607.4	607.4	603.5	594.6	597.6	605.6	605.7	605.0	593.7	571.9	537.8
27.5°	607.0	605.9	601.5	594.8	603.0	615.2	615.9	620.9	613.9	593.9	562.3
30°	621.8	620.5	611.1	602.4	612.8	625.9	627.8	638.7	635.2	617.8	589.5
32.5°	656.4	651.8	630.9	616.7	624.4	640.1	642.6	659.9	665.5	647.2	615.7
35°	703.8	689.2	659.0	643.7	644.4	660.9	663.1	688.6	705.1	674.2	636.1
37.5°	769.1	761.9	712.9	671.8	675.1	700.1	706.6	734.3	729.7	689.0	659.2
40°	912.3	901.0	848.8	750.6	704.5	731.9	733.9	748.8	749.1	722.5	707.3
42.5°	1107.3	1102.7	1047.7	893.6	762.4	753.2	756.9	781.9	809.8	793.2	792.4
45°	1323.2	1320.8	1262.5	1083.4	879.6	822.9	827.6	861.1	914.5	918.2	941.7
47.5°	1496.9	1495.8	1462.3	1295.3	1058.8	941.2	942.6	978.2	1072.2	1118.6	1156.2
50°	1655.3	1660.7	1634.2	1524.5	1303.1	1126.4	1122.8	1146.5	1297.5	1373.5	1420.2
52.5°	1875.5	1883.1	1808.9	1738.4	1559.3	1356.2	1353.4	1378.2	1568.4	1625.3	1633.7
55°	2069.9	2057.0	1998.3	1978.0	1871.8	1640.0	1639.2	1661.1	1830.3	1854.6	1869.9
57.5°	2155.8	2150.8	2179.1	2225.7	2199.1	1975.4	1973.7	1957.1	2064.8	2067.3	2114.5
60°	2210.0	2216.1	2302.9	2446.6	2513.0	2336.4	2325.6	2224.1	2288.6	2282.9	2333.4
62.5°	2169.3	2181.3	2337.5	2577.1	2748.0	2651.4	2636.3	2468.6	2479.9	2460.1	2507.1
65°	1953.2	1971.9	2227.8	2552.5	2864.6	2897.7	2882.3	2684.5	2631.8	2599.3	2573.2
67.5°	1585.9	1597.0	1864.2	2338.4	2812.0	3044.6	3041.4	2873.8	2746.5	2575.8	2373.4
69°	1310.6	1321.6	1578.7	2113.0	2696.4	3076.0	3082.1	2934.5	2724.7	2432.9	2102.9
70°	1110.1	1121.7	1361.3	1919.9	2562.3	3061.4	3072.3	2928.8	2662.2	2267.5	1865.5
72.5°	582.2	592.2	838.1	1322.7	2088.8	2811.1	2844.2	2681.2	2256.6	1646.8	1103.1
75°	183.0	188.7	327.3	691.4	1430.2	2185.8	2193.3	2103.2	1602.4	905.8	459.4
77.5°	69.8	68.1	109.0	254.8	723.0	1376.3	1422.8	1314.3	840.9	320.3	106.0
80°	37.6	37.7	56.6	105.5	309.3	707.3	746.5	637.0	298.8	99.9	24.4
82.5°	16.3	17.0	31.8	55.9	142.1	260.9	280.5	233.5	114.2	67.2	9.1
85°	3.5	3.9	15.4	30.3	57.9	73.3	76.8	75.7	72.7	52.2	3.5
87.5°	0.0	0.0	6.8	10.9	14.6	16.7	14.6	19.1	40.1	35.2	1.9
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: P323005

CATALOG NUMBER: GLEON-SA1C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4
2.5°	395.7	392.4	386.7	380.4	375.9	371.3	367.6	366.0	364.1	362.8	364.5
5°	395.0	388.5	377.4	366.7	358.9	352.6	347.5	345.4	343.4	341.9	341.7
7.5°	401.5	392.4	375.4	359.7	347.6	339.1	332.1	329.1	326.7	325.6	324.7
10°	413.9	402.2	379.5	358.9	343.4	329.0	313.8	302.1	294.5	291.0	289.7
12.5°	430.0	415.4	387.2	362.8	340.2	312.5	280.3	252.5	234.6	228.7	225.2
15°	448.8	430.7	397.4	367.8	328.8	278.1	223.5	187.2	170.6	167.3	163.6
17.5°	467.0	447.0	409.6	368.7	303.6	222.2	163.7	139.1	132.7	134.9	135.4
20°	482.9	463.1	421.6	360.6	257.9	166.7	126.7	120.6	123.0	127.3	128.0
22.5°	499.0	478.6	432.7	339.1	199.4	126.5	114.2	115.6	118.0	122.3	123.0
25°	518.6	497.5	443.1	299.7	149.7	107.7	108.4	110.6	113.0	116.9	117.3
27.5°	541.2	521.4	450.0	248.5	111.0	99.0	101.4	104.7	107.1	110.8	111.6
30°	571.1	552.8	452.2	195.4	93.1	91.2	92.3	96.4	99.9	103.2	103.8
32.5°	599.3	583.9	444.8	147.5	86.2	84.0	84.0	86.4	90.5	93.6	94.4
35°	625.2	615.2	421.1	107.9	81.0	77.3	75.5	75.5	78.1	80.7	81.4
37.5°	659.4	659.0	382.8	86.0	76.0	71.8	67.9	64.9	64.0	64.6	64.9
40°	718.0	718.6	332.8	77.2	71.8	66.0	60.1	54.8	49.8	48.1	47.9
42.5°	809.6	801.3	280.5	72.9	68.1	60.1	51.2	44.0	36.3	33.9	33.7
45°	955.0	905.6	225.0	69.0	64.2	53.5	42.4	32.6	26.3	24.4	24.4
47.5°	1166.9	1042.7	174.3	64.8	59.0	45.9	32.0	23.5	19.2	18.3	18.5
50°	1385.9	1177.1	133.6	59.4	52.7	37.9	23.7	17.0	14.6	14.6	14.8
52.5°	1580.2	1275.5	104.2	53.7	45.0	29.8	17.9	13.3	12.2	12.0	12.2
55°	1762.1	1338.9	79.7	47.0	35.7	22.2	13.7	10.9	10.2	9.8	9.6
57.5°	1937.5	1370.4	59.8	37.9	25.9	16.1	10.9	9.3	8.5	8.0	7.8
60°	2054.2	1344.9	41.1	27.9	17.9	11.7	9.1	8.0	7.0	6.5	6.3
62.5°	2120.1	1275.1	26.5	20.2	12.8	8.7	7.2	6.7	5.4	4.8	4.8
65°	2093.4	1160.0	18.5	14.4	9.3	6.5	5.4	5.4	3.9	3.1	3.0
67.5°	1855.1	980.0	14.1	10.7	6.7	4.8	4.1	4.6	2.4	1.5	1.5
69°	1596.1	812.2	12.0	8.9	5.6	3.9	3.5	4.3	1.7	1.1	0.9
70°	1387.2	700.6	10.9	7.8	4.6	3.3	3.1	4.1	1.7	0.9	0.7
72.5°	830.0	390.7	8.3	5.6	3.0	2.6	2.6	4.6	1.7	0.9	0.7
75°	335.4	137.7	6.1	3.9	2.2	2.2	3.1	5.9	1.5	0.7	0.6
77.5°	76.0	30.2	3.5	2.4	1.5	2.2	3.7	4.6	0.9	0.4	0.0
80°	18.5	7.4	2.2	1.5	0.9	1.7	2.8	2.6	0.2	0.0	0.0
82.5°	6.1	2.6	0.9	0.7	0.2	0.6	1.3	0.7	0.0	0.0	0.0
85°	2.6	1.5	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	0.0	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)