

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: P322986

Luminaire Tested: **GLEON-SA2A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322986
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-SA2A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5080 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

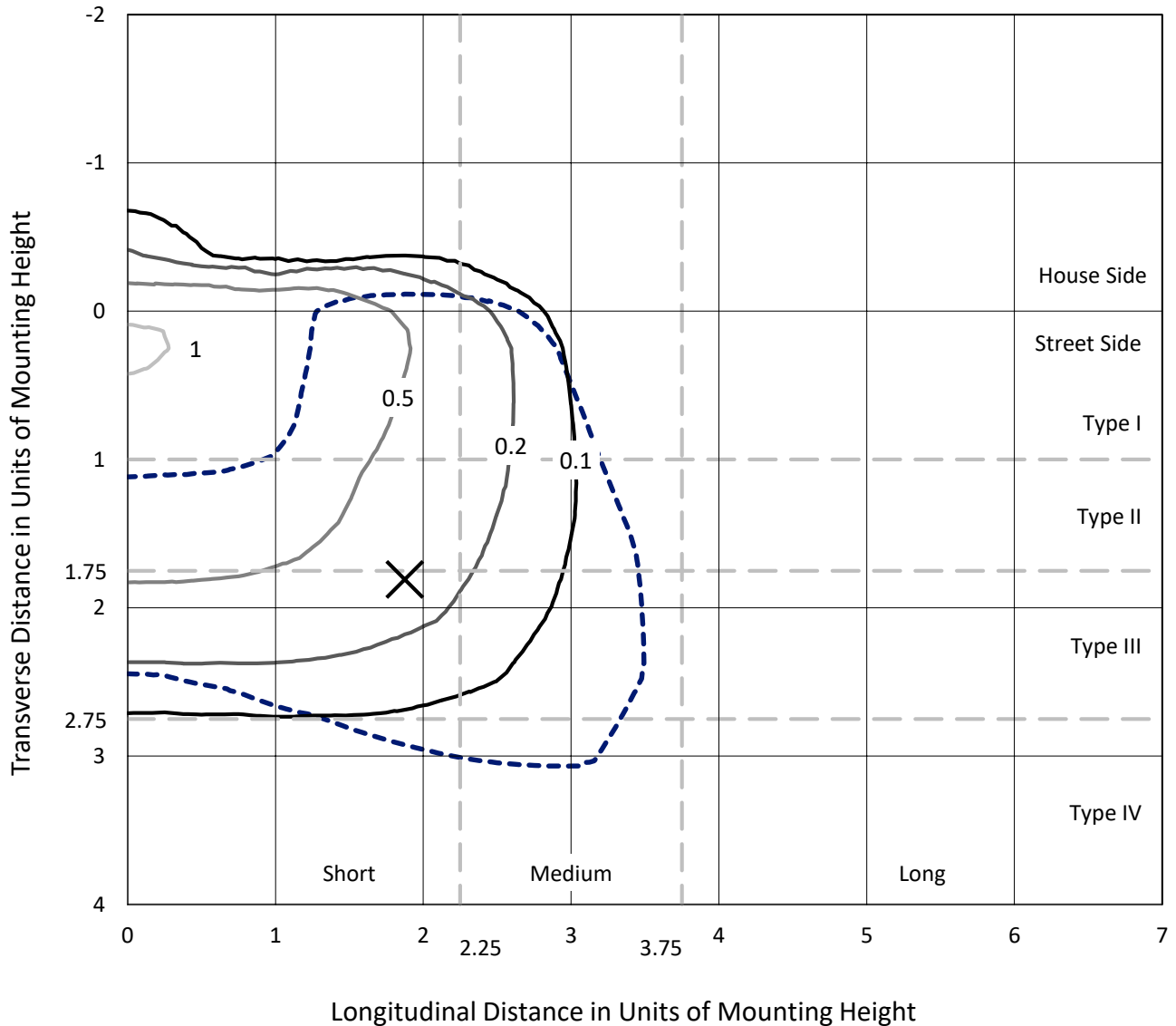
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

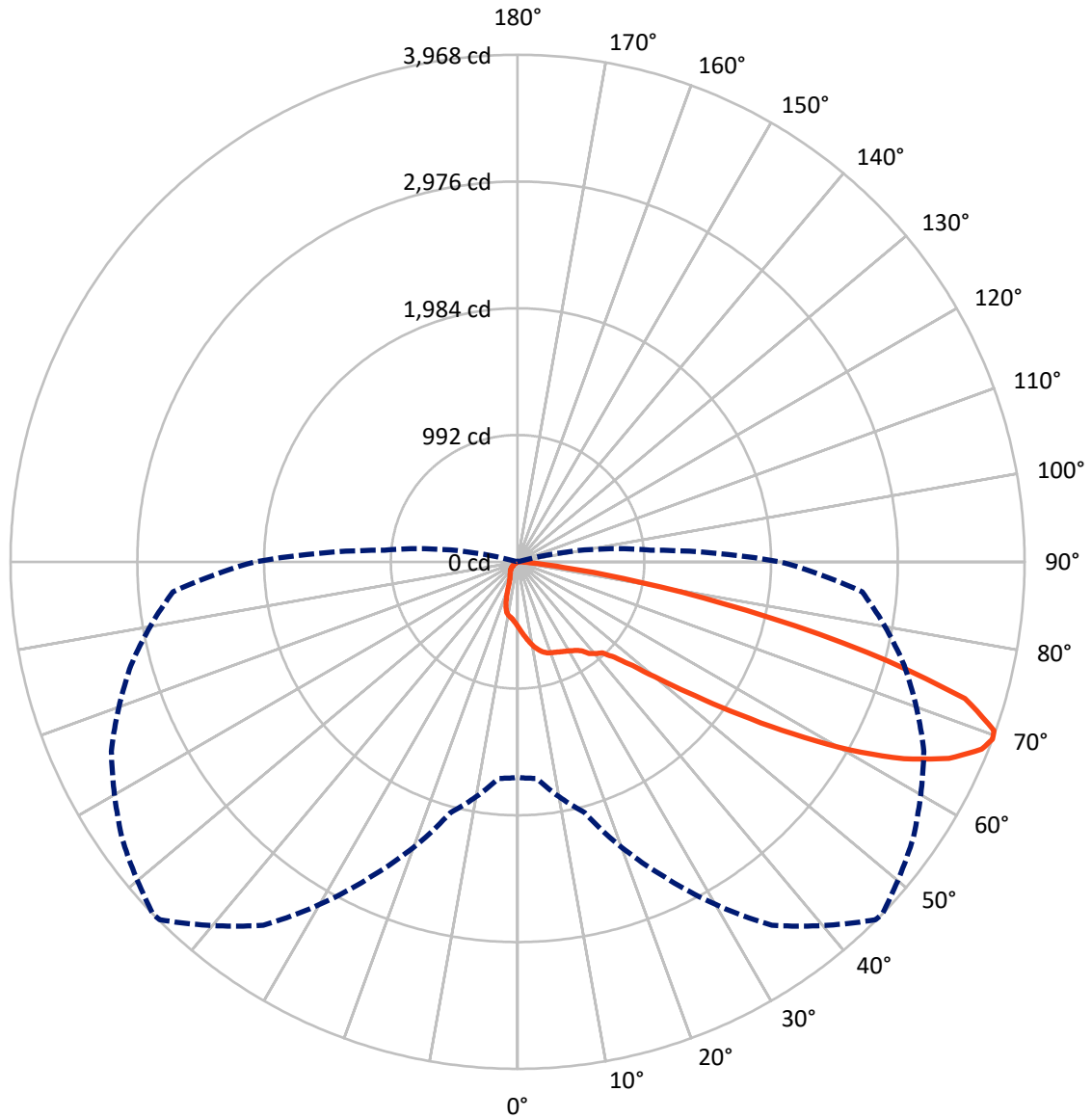
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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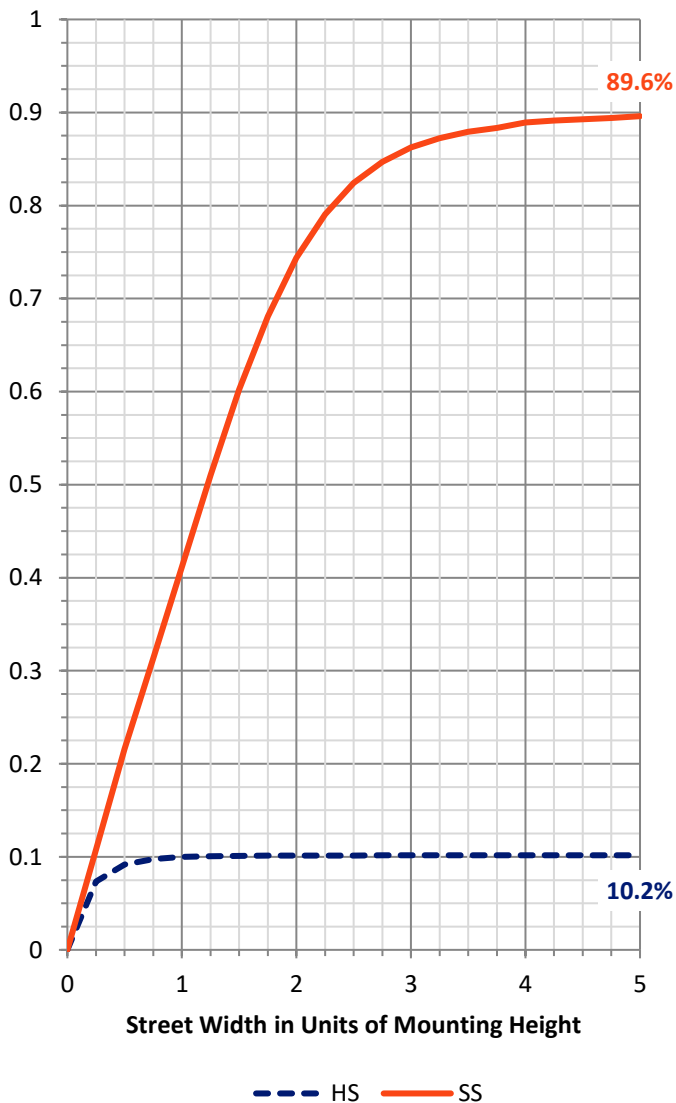
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.3	0.0	521.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4558.7	0.0	4558.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	5080.0	0.0	5080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	1.0
10°-20°	153.7	3.0
20°-30°	241.7	4.8
30°-40°	346.6	6.8
40°-50°	599.1	11.8
50°-60°	1183.6	23.3
60°-70°	1654.1	32.6
70°-80°	799.1	15.7
80°-90°	51.4	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°	5080.0	100.0
0°-180°	5080.0	100.0



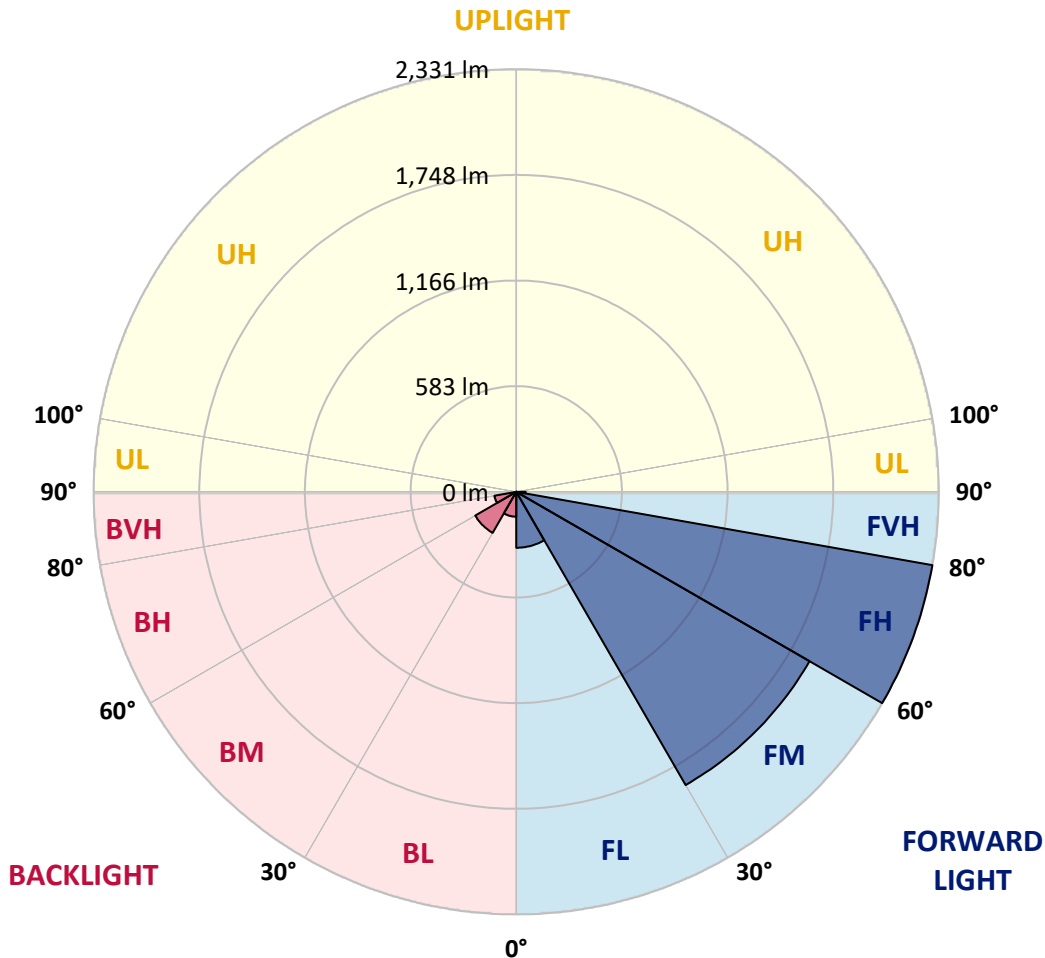
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	6.1			
FM (30°-60°)	1868.0	36.8			
FH (60°-80°)	2331.0	45.9			G2/5000
FVH (80°-90°)	50.9	1.0			G1/100
BL (0°-30°)	137.4	2.7	B1/500		
BM (30°-60°)	261.3	5.1	B1/1000		
BH (60°-80°)	122.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0
2.5°	565.4	564.7	561.4	560.0	551.9	547.1	545.2	539.2	530.7	522.1	512.6
5°	629.8	629.5	623.3	617.4	602.1	587.8	585.2	571.4	552.1	534.0	515.9
7.5°	695.5	692.4	686.2	674.8	652.6	629.8	627.6	608.1	580.7	554.5	528.5
10°	751.2	749.3	741.2	723.8	697.9	671.9	669.3	645.2	614.3	582.1	549.0
12.5°	794.6	793.1	782.4	760.8	733.1	706.2	702.6	681.2	648.1	612.1	573.1
15°	821.0	820.3	807.2	784.1	756.9	733.6	730.5	711.7	681.0	643.3	599.3
17.5°	827.2	827.4	813.9	790.5	768.1	751.5	749.1	734.8	709.1	671.7	625.5
20°	813.4	816.3	804.1	783.9	770.0	761.2	759.3	750.8	729.1	693.8	646.4
22.5°	793.9	795.3	787.0	773.4	767.7	769.3	768.4	763.6	745.3	712.9	667.2
25°	782.0	782.0	777.0	765.5	769.3	779.6	779.8	778.9	764.3	736.2	692.4
27.5°	781.5	780.0	774.3	765.8	776.2	792.0	792.9	799.3	790.3	764.6	723.8
30°	800.5	798.9	786.7	775.5	788.9	805.8	808.2	822.2	817.7	795.3	758.9
32.5°	845.1	839.1	812.2	793.9	803.9	824.1	827.2	849.6	856.7	833.2	792.7
35°	906.0	887.2	848.4	828.6	829.6	850.8	853.6	886.5	907.7	867.9	818.9
37.5°	990.1	980.8	917.7	864.8	869.1	901.3	909.6	945.3	939.4	887.0	848.6
40°	1174.5	1160.0	1092.8	966.3	907.0	942.3	944.9	963.9	964.4	930.1	910.6
42.5°	1425.5	1419.6	1348.8	1150.4	981.6	969.6	974.4	1006.6	1042.5	1021.1	1020.1
45°	1703.5	1700.4	1625.4	1394.8	1132.3	1059.4	1065.4	1108.5	1177.3	1182.1	1212.4
47.5°	1927.1	1925.7	1882.6	1667.5	1363.1	1211.6	1213.5	1259.3	1380.3	1440.1	1488.4
50°	2131.0	2137.9	2103.9	1962.6	1677.5	1450.1	1445.5	1476.0	1670.4	1768.3	1828.3
52.5°	2414.5	2424.2	2328.7	2238.0	2007.4	1745.9	1742.3	1774.2	2019.1	2092.4	2103.2
55°	2664.8	2648.1	2572.6	2546.4	2409.7	2111.3	2110.3	2138.4	2356.3	2387.5	2407.3
57.5°	2775.3	2768.9	2805.3	2865.3	2831.0	2543.1	2540.9	2519.5	2658.1	2661.5	2722.2
60°	2845.1	2853.0	2964.7	3149.7	3235.2	3007.8	2994.0	2863.2	2946.3	2938.9	3004.0
62.5°	2792.7	2808.2	3009.2	3317.7	3537.7	3413.4	3393.9	3178.1	3192.6	3167.1	3227.6
65°	2514.5	2538.6	2868.0	3286.0	3687.8	3730.4	3710.7	3456.0	3388.2	3346.2	3312.6
67.5°	2041.7	2056.0	2399.9	3010.4	3620.1	3919.5	3915.5	3699.7	3535.8	3316.0	3055.4
69°	1687.3	1701.3	2032.4	2720.3	3471.3	3960.0	3967.9	3777.8	3507.7	3132.1	2707.2
70°	1429.1	1444.1	1752.6	2471.6	3298.6	3941.2	3955.3	3770.4	3427.2	2919.2	2401.6
72.5°	749.6	762.4	1079.0	1702.8	2689.1	3619.0	3661.6	3451.7	2905.1	2120.1	1420.0
75°	235.6	242.9	421.3	890.1	1841.2	2813.9	2823.7	2707.7	2062.9	1166.1	591.4
77.5°	89.8	87.7	140.3	328.0	930.8	1771.8	1831.6	1692.1	1082.5	412.3	136.5
80°	48.4	48.6	72.9	135.8	398.2	910.6	961.1	820.1	384.7	128.6	31.4
82.5°	21.0	21.9	41.0	71.9	182.9	335.8	361.1	300.6	147.0	86.5	11.7
85°	4.5	5.0	19.8	39.1	74.6	94.3	98.8	97.4	93.6	67.2	4.5
87.5°	0.0	0.0	8.8	14.1	18.8	21.4	18.8	24.5	51.7	45.3	2.4
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°	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0
2.5°	509.5	505.2	497.8	489.7	484.0	478.0	473.3	471.1	468.7	467.1	469.2
5°	508.5	500.2	485.9	472.1	462.1	454.0	447.3	444.7	442.1	440.2	439.9
7.5°	516.9	505.2	483.3	463.0	447.5	436.6	427.5	423.7	420.6	419.2	418.0
10°	532.8	517.8	488.5	462.1	442.1	423.5	404.0	389.0	379.2	374.7	373.0
12.5°	553.5	534.7	498.5	467.1	438.0	402.3	360.8	325.1	302.0	294.4	289.9
15°	577.8	554.5	511.6	473.5	423.3	358.0	287.7	241.0	219.6	215.3	210.6
17.5°	601.2	575.5	527.3	474.7	390.9	286.1	210.8	179.1	170.8	173.6	174.3
20°	621.7	596.2	542.8	464.2	332.0	214.6	163.2	155.3	158.4	163.9	164.8
22.5°	642.4	616.2	557.1	436.6	256.8	162.9	147.0	148.9	152.0	157.4	158.4
25°	667.6	640.5	570.4	385.9	192.7	138.6	139.6	142.4	145.5	150.5	151.0
27.5°	696.7	671.2	579.3	319.9	142.9	127.4	130.5	134.8	137.9	142.7	143.6
30°	735.3	711.7	582.1	251.5	119.8	117.4	118.9	124.1	128.6	132.9	133.6
32.5°	771.5	751.7	572.6	189.8	111.0	108.1	108.1	111.2	116.5	120.5	121.5
35°	804.8	792.0	542.1	138.9	104.3	99.6	97.2	97.2	100.5	103.8	104.8
37.5°	848.9	848.4	492.8	110.8	97.9	92.4	87.4	83.6	82.4	83.1	83.6
40°	924.4	925.1	428.5	99.3	92.4	85.0	77.4	70.5	64.1	61.9	61.7
42.5°	1042.3	1031.6	361.1	93.8	87.7	77.4	66.0	56.7	46.7	43.6	43.3
45°	1229.5	1165.9	289.6	88.8	82.6	68.8	54.5	41.9	33.8	31.4	31.4
47.5°	1502.2	1342.4	224.4	83.4	76.0	59.1	41.2	30.2	24.8	23.6	23.8
50°	1784.2	1515.3	172.0	76.5	67.9	48.8	30.5	21.9	18.8	18.8	19.1
52.5°	2034.3	1642.0	134.1	69.1	57.9	38.3	23.1	17.1	15.7	15.5	15.7
55°	2268.5	1723.7	102.7	60.5	46.0	28.6	17.6	14.1	13.1	12.6	12.4
57.5°	2494.3	1764.2	76.9	48.8	33.3	20.7	14.1	11.9	11.0	10.2	10.0
60°	2644.5	1731.4	52.9	36.0	23.1	15.0	11.7	10.2	9.1	8.3	8.1
62.5°	2729.3	1641.6	34.1	26.0	16.4	11.2	9.3	8.6	6.9	6.2	6.2
65°	2695.0	1493.4	23.8	18.6	11.9	8.3	6.9	6.9	5.0	4.0	3.8
67.5°	2388.3	1261.7	18.1	13.8	8.6	6.2	5.2	6.0	3.1	1.9	1.9
69°	2054.8	1045.6	15.5	11.4	7.1	5.0	4.5	5.5	2.1	1.4	1.2
70°	1785.9	902.0	14.1	10.0	6.0	4.3	4.0	5.2	2.1	1.2	1.0
72.5°	1068.5	503.0	10.7	7.1	3.8	3.3	3.3	6.0	2.1	1.2	1.0
75°	431.8	177.2	7.9	5.0	2.9	2.9	4.0	7.6	1.9	1.0	0.7
77.5°	97.9	38.8	4.5	3.1	1.9	2.9	4.8	6.0	1.2	0.5	0.0
80°	23.8	9.5	2.9	1.9	1.2	2.1	3.6	3.3	0.2	0.0	0.0
82.5°	7.9	3.3	1.2	1.0	0.2	0.7	1.7	1.0	0.0	0.0	0.0
85°	3.3	1.9	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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)