

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: P323015

Luminaire Tested: **GLEON-SA1D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323015
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-SA1D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 4328 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

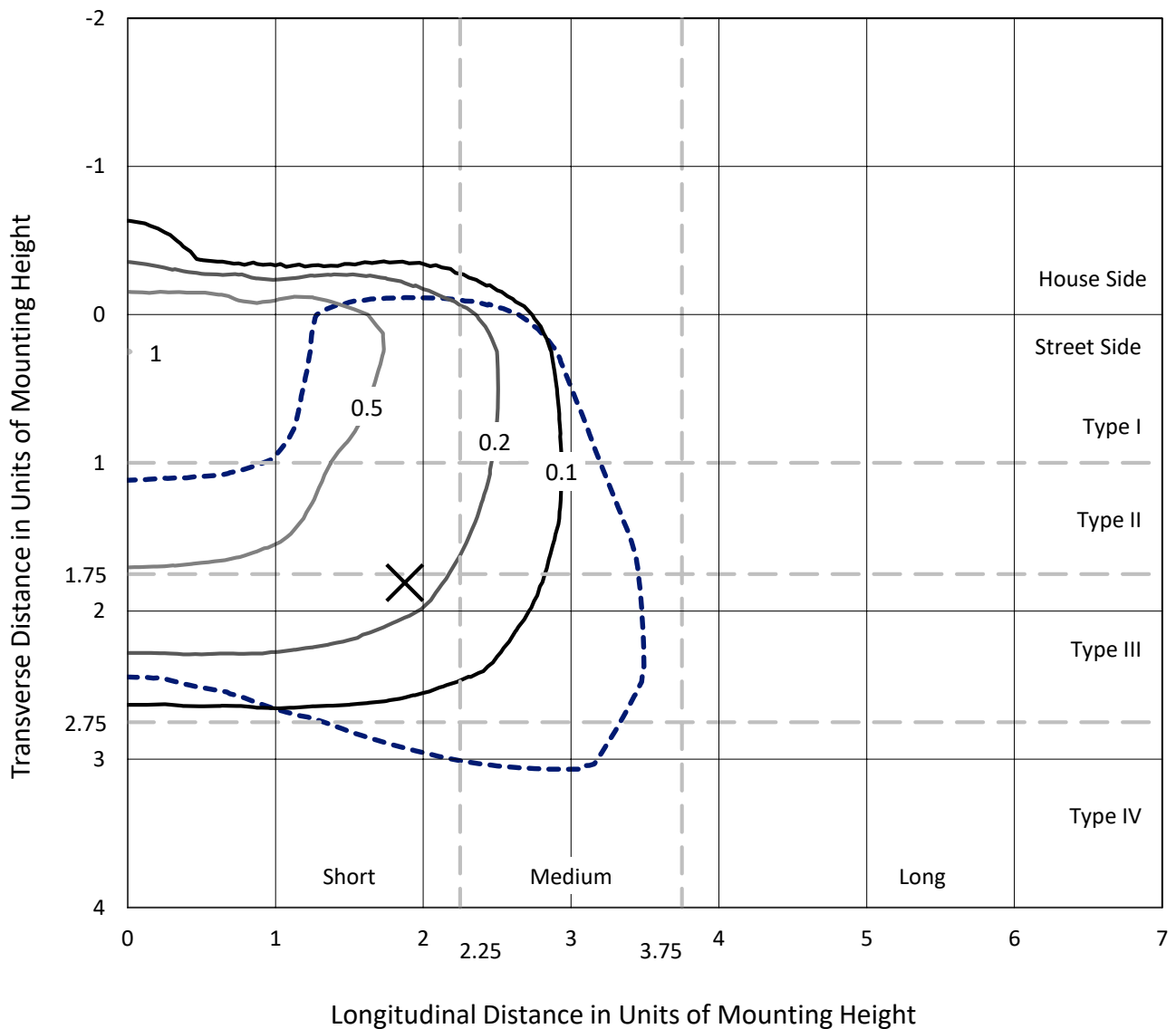




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Iso-Footcandle Lines of Horizontal Illumination

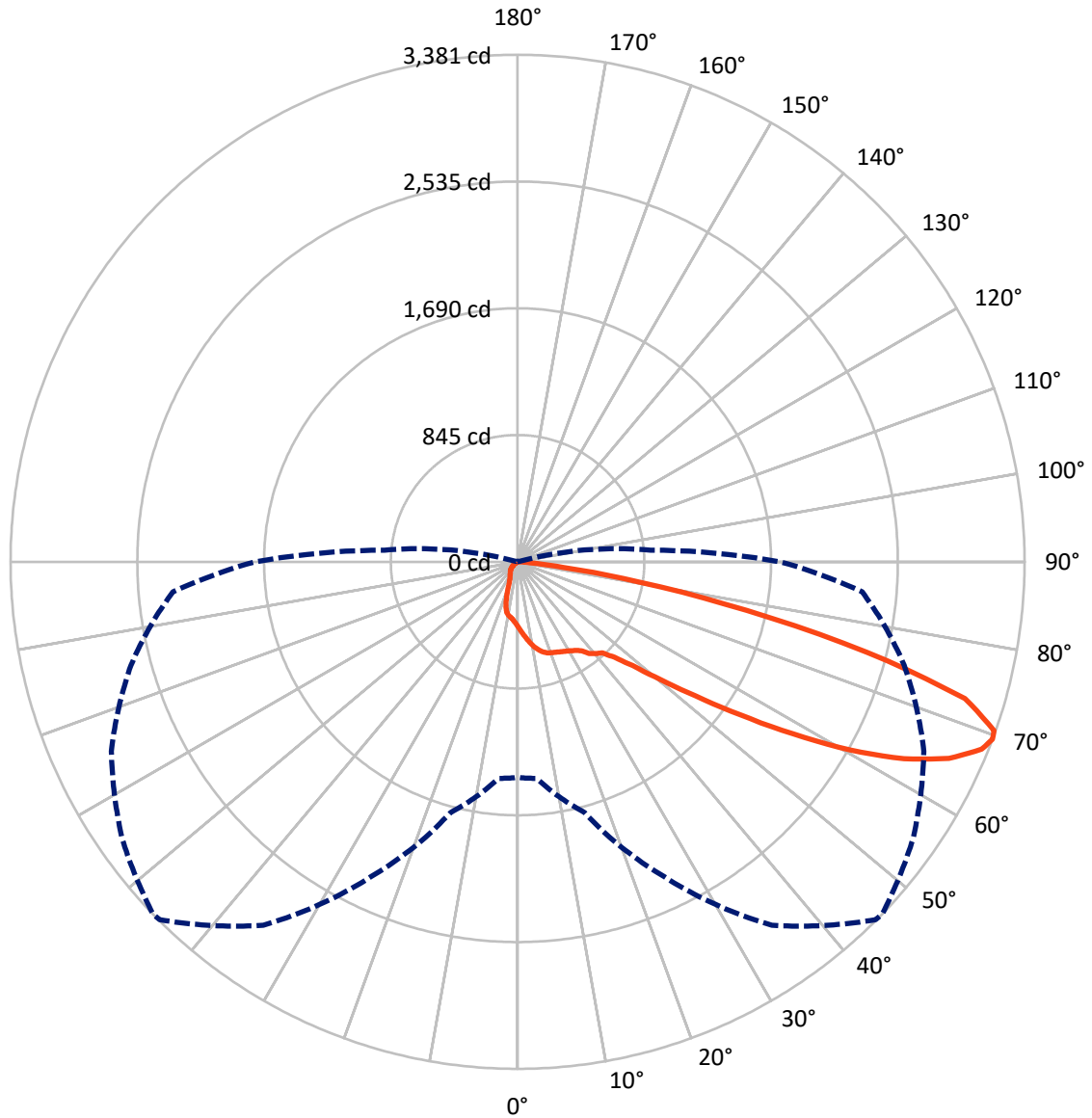
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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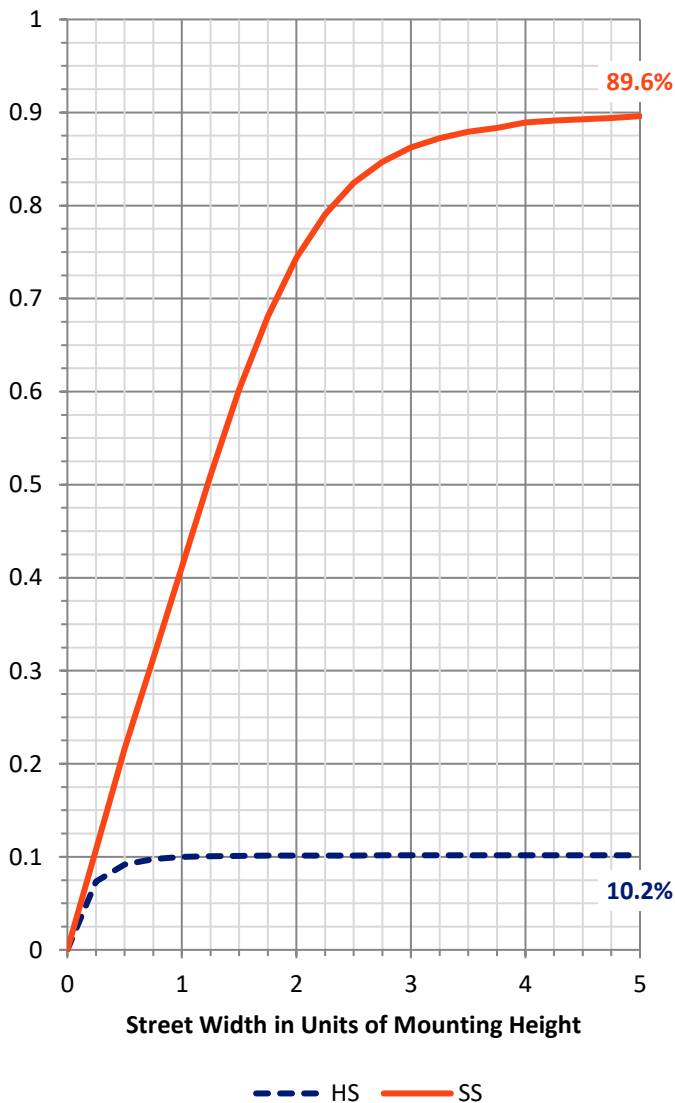
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.2	0.0	444.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3883.8	0.0	3883.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	4328.0	0.0	4328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	130.9	3.0
20°-30°	205.9	4.8
30°-40°	295.3	6.8
40°-50°	510.4	11.8
50°-60°	1008.4	23.3
60°-70°	1409.3	32.6
70°-80°	680.8	15.7
80°-90°	43.8	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°	4328.0	100.0
0°-180°	4328.0	100.0



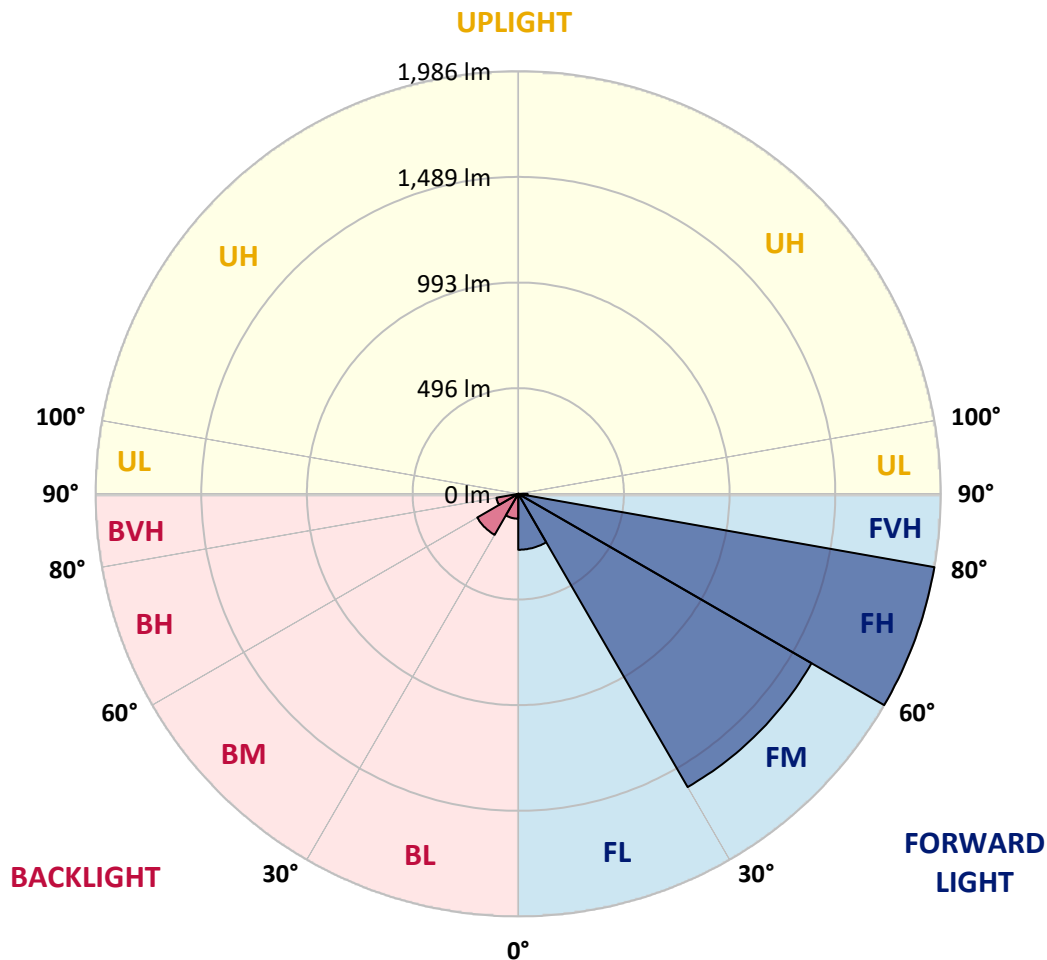
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.0	6.1			
FM (30°-60°)	1591.5	36.8			
FH (60°-80°)	1986.0	45.9			G2/5000
FVH (80°-90°)	43.4	1.0			G1/100
BL (0°-30°)	117.1	2.7	B1/500		
BM (30°-60°)	222.6	5.1	B1/1000		
BH (60°-80°)	104.1	2.4	B0/110		G0/110
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°	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6
2.5°	481.7	481.1	478.3	477.1	470.2	466.1	464.5	459.4	452.1	444.8	436.7
5°	536.5	536.3	531.1	526.0	513.0	500.8	498.6	486.8	470.4	455.0	439.5
7.5°	592.5	589.9	584.6	574.9	556.0	536.5	534.7	518.1	494.7	472.4	450.3
10°	640.0	638.4	631.5	616.7	594.6	572.4	570.2	549.7	523.3	495.9	467.7
12.5°	677.0	675.7	666.6	648.1	624.6	601.7	598.6	580.4	552.2	521.5	488.2
15°	699.5	698.9	687.7	668.0	644.9	625.0	622.4	606.3	580.2	548.1	510.6
17.5°	704.8	705.0	693.4	673.5	654.4	640.2	638.2	626.0	604.1	572.2	532.9
20°	693.0	695.4	685.1	667.8	656.1	648.5	646.9	639.6	621.2	591.1	550.7
22.5°	676.3	677.6	670.5	658.9	654.0	655.4	654.6	650.6	635.0	607.4	568.4
25°	666.2	666.2	661.9	652.2	655.4	664.2	664.4	663.6	651.2	627.2	589.9
27.5°	665.8	664.6	659.7	652.4	661.3	674.7	675.5	681.0	673.3	651.4	616.7
30°	682.0	680.6	670.3	660.7	672.1	686.5	688.5	700.5	696.6	677.6	646.5
32.5°	720.0	714.9	692.0	676.3	684.9	702.1	704.8	723.8	729.9	709.8	675.3
35°	771.9	755.9	722.8	706.0	706.8	724.8	727.3	755.3	773.3	739.5	697.7
37.5°	843.6	835.6	781.9	736.8	740.5	767.9	775.0	805.4	800.3	755.7	723.0
40°	1000.6	988.2	931.0	823.3	772.7	802.8	805.0	821.2	821.6	792.4	775.8
42.5°	1214.5	1209.4	1149.2	980.1	836.3	826.1	830.2	857.6	888.2	869.9	869.1
45°	1451.3	1448.7	1384.8	1188.3	964.7	902.6	907.7	944.4	1003.1	1007.1	1032.9
47.5°	1641.9	1640.6	1603.9	1420.7	1161.3	1032.3	1033.9	1072.9	1175.9	1226.9	1268.1
50°	1815.6	1821.4	1792.4	1672.1	1429.2	1235.4	1231.5	1257.5	1423.1	1506.5	1557.6
52.5°	2057.0	2065.4	1984.0	1906.7	1710.2	1487.4	1484.4	1511.6	1720.2	1782.7	1791.8
55°	2270.3	2256.1	2191.8	2169.5	2053.0	1798.7	1797.9	1821.9	2007.5	2034.1	2051.0
57.5°	2364.5	2359.0	2390.0	2441.2	2412.0	2166.6	2164.8	2146.5	2264.6	2267.5	2319.2
60°	2423.9	2430.6	2525.8	2683.5	2756.3	2562.5	2550.8	2439.4	2510.2	2503.9	2559.3
62.5°	2379.3	2392.5	2563.7	2826.5	3014.0	2908.1	2891.5	2707.6	2720.0	2698.3	2749.8
65°	2142.3	2162.8	2443.4	2799.5	3141.9	3178.2	3161.4	2944.4	2886.6	2850.9	2822.3
67.5°	1739.5	1751.6	2044.7	2564.8	3084.2	3339.3	3335.9	3152.0	3012.4	2825.1	2603.1
69°	1437.5	1449.5	1731.6	2317.6	2957.4	3373.8	3380.5	3218.6	2988.5	2668.5	2306.4
70°	1217.5	1230.3	1493.1	2105.7	2810.3	3357.8	3369.8	3212.3	2919.9	2487.0	2046.1
72.5°	638.6	649.6	919.2	1450.7	2291.0	3083.2	3119.6	2940.8	2475.1	1806.2	1209.8
75°	200.7	207.0	359.0	758.3	1568.6	2397.3	2405.7	2306.8	1757.5	993.5	503.9
77.5°	76.5	74.7	119.5	279.4	793.0	1509.6	1560.5	1441.6	922.3	351.3	116.3
80°	41.2	41.4	62.1	115.7	339.3	775.8	818.8	698.7	327.7	109.6	26.8
82.5°	17.9	18.7	34.9	61.3	155.8	286.1	307.6	256.1	125.2	73.7	9.9
85°	3.9	4.3	16.8	33.3	63.5	80.4	84.2	83.0	79.7	57.2	3.9
87.5°	0.0	0.0	7.5	12.0	16.0	18.3	16.0	20.9	44.0	38.6	2.0
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°	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6
2.5°	434.1	430.4	424.1	417.2	412.3	407.3	403.2	401.4	399.4	397.9	399.8
5°	433.2	426.1	414.0	402.2	393.7	386.8	381.1	378.9	376.6	375.0	374.8
7.5°	440.3	430.4	411.7	394.5	381.3	372.0	364.2	361.0	358.4	357.1	356.1
10°	453.9	441.2	416.2	393.7	376.6	360.8	344.2	331.4	323.1	319.2	317.8
12.5°	471.6	455.6	424.7	397.9	373.2	342.7	307.4	277.0	257.3	250.8	247.0
15°	492.3	472.4	435.9	403.4	360.6	305.0	245.1	205.4	187.1	183.4	179.4
17.5°	512.2	490.3	449.3	404.4	333.0	243.7	179.6	152.6	145.5	147.9	148.5
20°	529.6	507.9	462.5	395.5	282.9	182.8	139.0	132.3	134.9	139.6	140.4
22.5°	547.3	525.0	474.6	372.0	218.8	138.8	125.2	126.8	129.5	134.1	134.9
25°	568.8	545.7	486.0	328.7	164.2	118.1	118.9	121.3	124.0	128.2	128.7
27.5°	593.6	571.8	493.5	272.5	121.8	108.6	111.2	114.9	117.5	121.6	122.4
30°	626.4	606.3	495.9	214.3	102.1	100.0	101.3	105.7	109.6	113.2	113.8
32.5°	657.3	640.4	487.8	161.7	94.6	92.1	92.1	94.8	99.2	102.7	103.5
35°	685.7	674.7	461.9	118.3	88.9	84.8	82.8	82.8	85.6	88.5	89.3
37.5°	723.2	722.8	419.9	94.4	83.4	78.7	74.5	71.2	70.2	70.8	71.2
40°	787.5	788.2	365.1	84.6	78.7	72.4	66.0	60.1	54.6	52.8	52.6
42.5°	888.0	878.9	307.6	80.0	74.7	66.0	56.2	48.3	39.8	37.1	36.9
45°	1047.5	993.3	246.8	75.7	70.4	58.6	46.5	35.7	28.8	26.8	26.8
47.5°	1279.8	1143.7	191.2	71.0	64.7	50.3	35.1	25.8	21.1	20.1	20.3
50°	1520.1	1291.0	146.5	65.1	57.8	41.6	26.0	18.7	16.0	16.0	16.2
52.5°	1733.2	1399.0	114.2	58.8	49.3	32.7	19.7	14.6	13.4	13.2	13.4
55°	1932.7	1468.6	87.5	51.5	39.2	24.4	15.0	12.0	11.2	10.8	10.6
57.5°	2125.0	1503.1	65.5	41.6	28.4	17.7	12.0	10.1	9.3	8.7	8.5
60°	2253.1	1475.1	45.0	30.6	19.7	12.8	9.9	8.7	7.7	7.1	6.9
62.5°	2325.3	1398.6	29.0	22.1	14.0	9.5	7.9	7.3	5.9	5.3	5.3
65°	2296.1	1272.3	20.3	15.8	10.1	7.1	5.9	5.9	4.3	3.4	3.2
67.5°	2034.7	1074.9	15.4	11.8	7.3	5.3	4.5	5.1	2.6	1.6	1.6
69°	1750.6	890.8	13.2	9.7	6.1	4.3	3.9	4.7	1.8	1.2	1.0
70°	1521.5	768.5	12.0	8.5	5.1	3.7	3.4	4.5	1.8	1.0	0.8
72.5°	910.3	428.6	9.1	6.1	3.2	2.8	2.8	5.1	1.8	1.0	0.8
75°	367.9	151.0	6.7	4.3	2.4	2.4	3.4	6.5	1.6	0.8	0.6
77.5°	83.4	33.1	3.9	2.6	1.6	2.4	4.1	5.1	1.0	0.4	0.0
80°	20.3	8.1	2.4	1.6	1.0	1.8	3.0	2.8	0.2	0.0	0.0
82.5°	6.7	2.8	1.0	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.8	1.6	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.8	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)