

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: P651211

Luminaire Tested: **GALN-SA1D-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4762.6 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

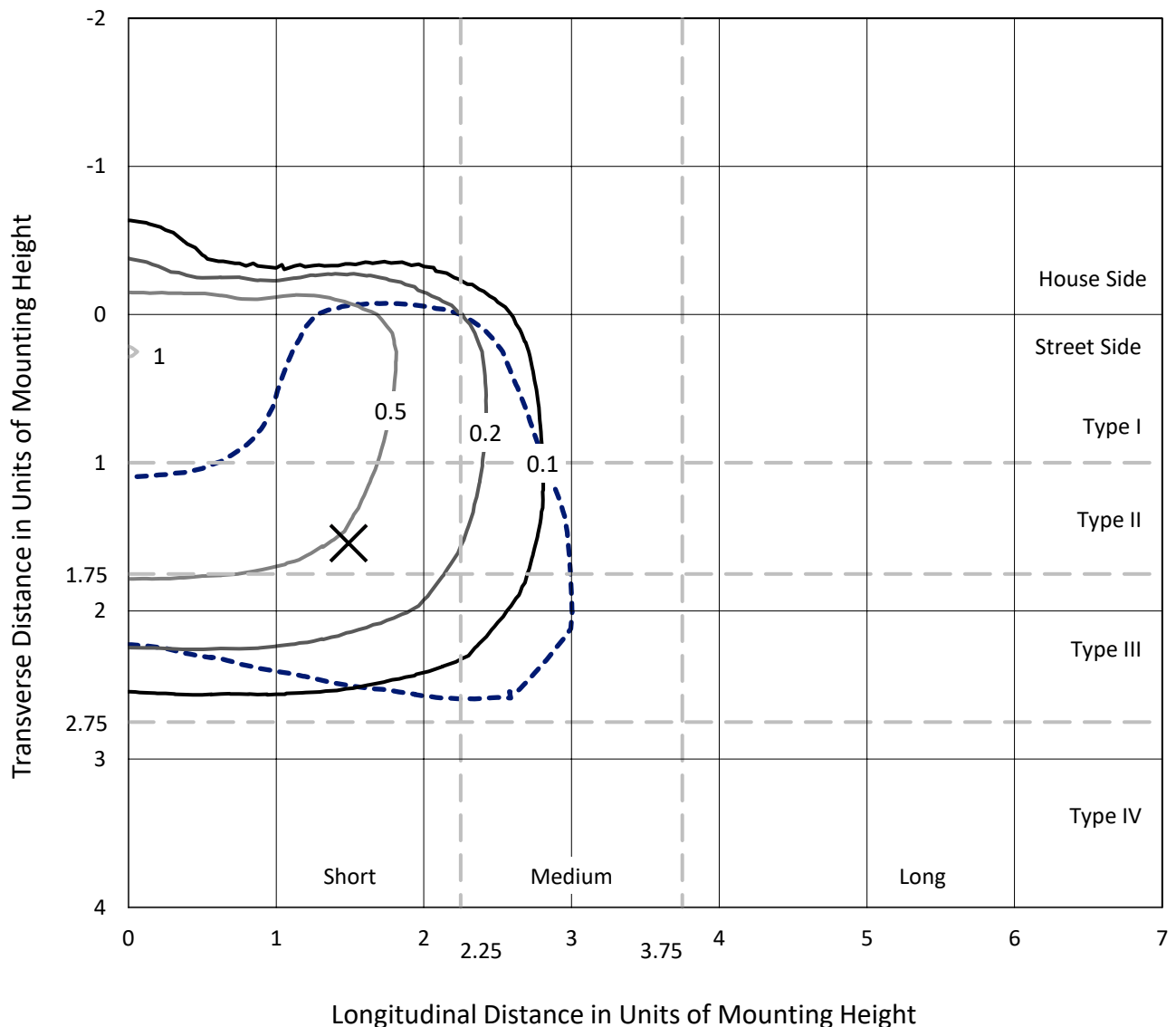
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1D-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

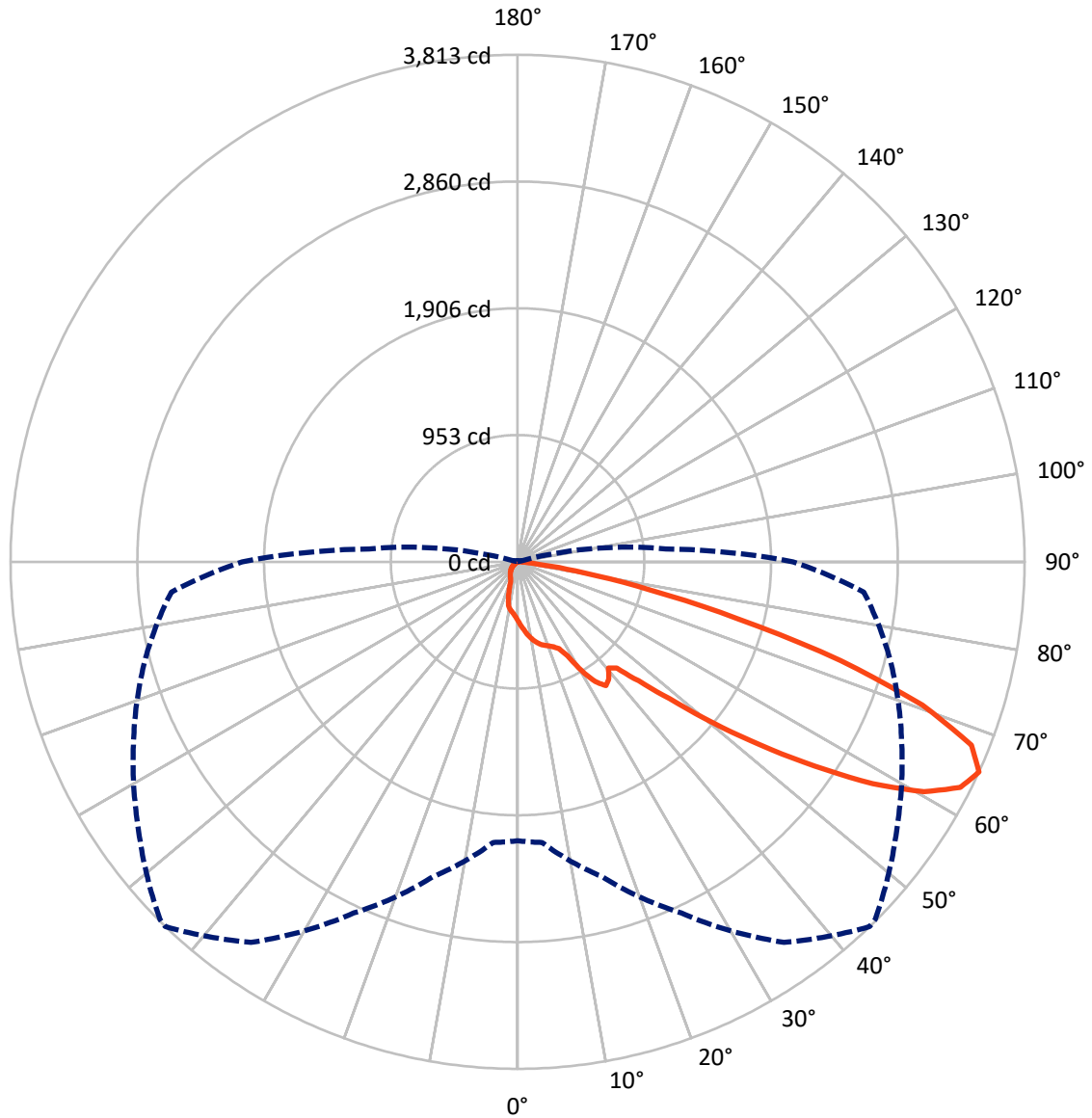
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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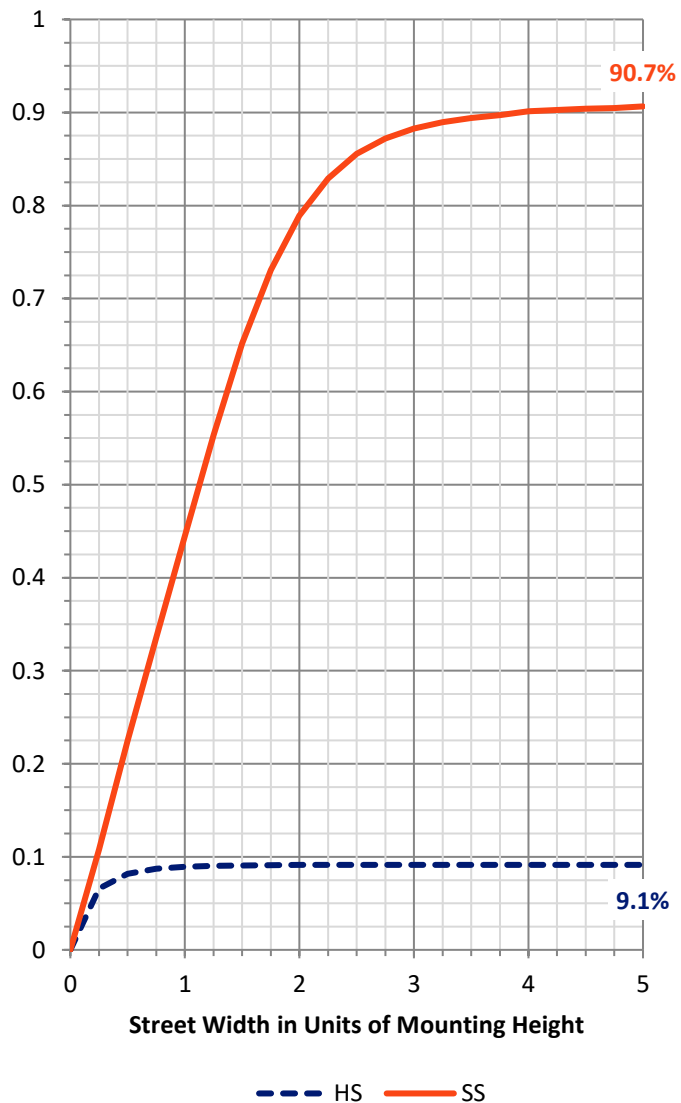
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	438.8	0.0	438.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4323.8	0.0	4323.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	4762.6	0.0	4762.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	0.9
10°-20°	132.7	2.8
20°-30°	225.0	4.7
30°-40°	374.1	7.9
40°-50°	653.1	13.7
50°-60°	1276.0	26.8
60°-70°	1480.5	31.1
70°-80°	539.1	11.3
80°-90°	38.0	0.8
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°	4762.6	100.0
0°-180°	4762.6	100.0

Coefficient of Utilization

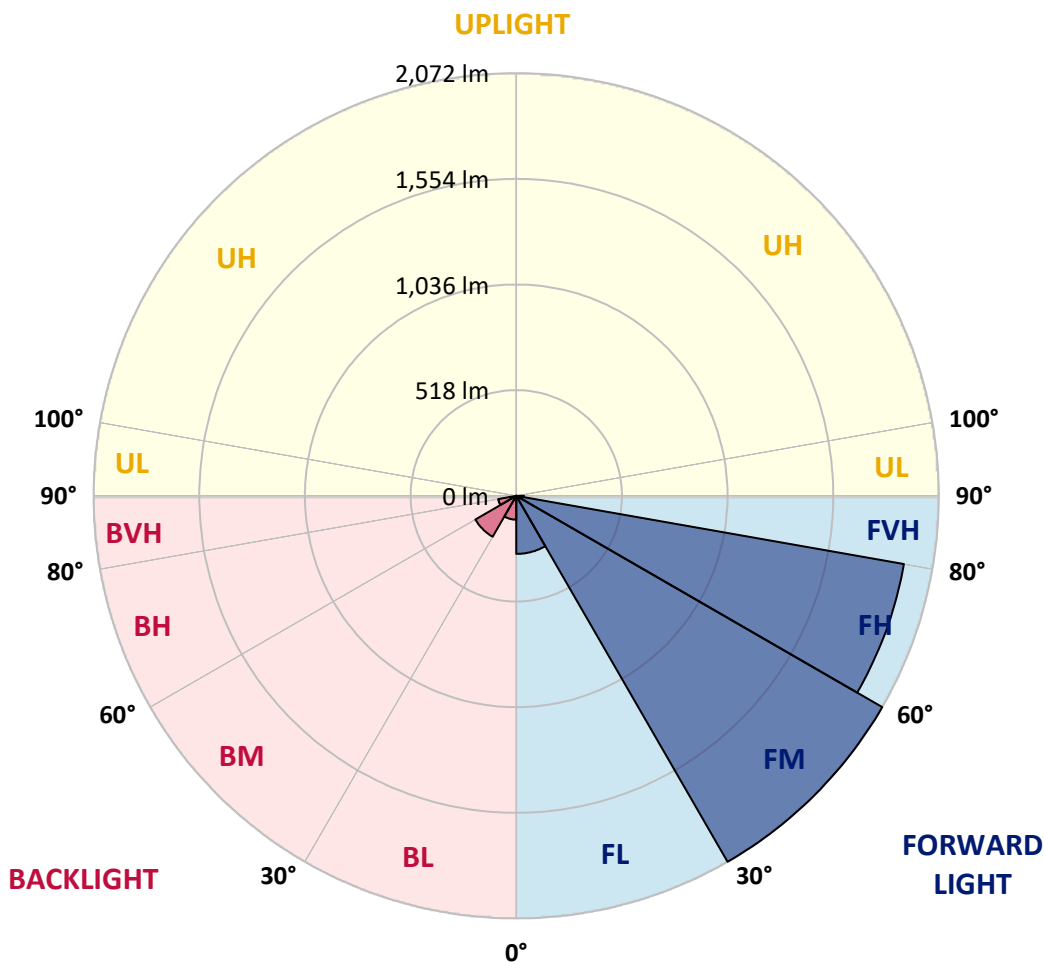


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.8	6.0			
FM (30°-60°)	2071.7	43.5			
FH (60°-80°)	1929.7	40.5			G2/5000
FVH (80°-90°)	37.5	0.8			G1/100
BL (0°-30°)	116.9	2.5	B1/500		
BM (30°-60°)	231.5	4.9	B1/1000		
BH (60°-80°)	89.9	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Short





REPORT NUMBER: P651211

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3
2.5°	499.0	496.8	495.7	489.8	485.5	480.0	480.0	473.1	465.1	456.3	448.3
5°	554.6	550.9	546.2	541.2	530.9	516.4	516.4	501.8	485.1	470.2	453.8
7.5°	608.1	604.8	596.9	587.0	570.3	555.0	553.9	532.8	512.8	490.2	466.9
10°	655.1	652.5	645.6	626.6	609.2	589.2	588.8	565.2	541.9	514.2	485.5
12.5°	687.8	688.2	679.1	660.9	638.3	619.4	618.0	594.7	570.3	540.4	505.1
15°	711.1	711.1	701.6	681.3	660.9	644.1	642.7	622.3	597.2	564.8	526.6
17.5°	717.6	719.8	709.6	691.5	675.1	660.5	660.2	643.0	623.0	591.7	548.4
20°	715.1	717.3	709.3	695.1	683.8	675.4	674.3	667.4	648.8	619.4	571.7
22.5°	709.6	711.8	706.0	697.6	692.1	694.8	692.9	698.7	688.9	653.2	599.4
25°	710.7	712.9	708.5	703.8	708.5	724.2	728.9	754.0	745.3	696.2	629.2
27.5°	745.0	749.3	743.1	745.3	762.0	798.4	807.5	850.8	812.2	750.8	675.8
30°	821.0	818.1	806.4	817.0	875.2	952.3	949.8	942.9	882.5	813.8	731.1
32.5°	890.1	887.6	886.8	932.3	1037.9	1075.4	1073.5	1006.6	945.5	885.7	785.7
35°	918.2	908.4	906.2	1016.4	1193.0	1143.4	1132.2	1032.8	1021.9	964.4	841.4
37.5°	1002.6	995.7	961.9	1030.2	1131.1	1114.7	1105.9	1077.9	1103.4	1033.9	904.3
40°	1176.6	1157.3	1126.7	1059.7	1043.3	1050.2	1059.0	1135.8	1199.9	1128.9	988.4
42.5°	1392.7	1388.3	1331.6	1206.8	1084.1	1093.6	1104.8	1256.6	1338.5	1271.9	1125.6
45°	1652.2	1658.4	1576.5	1429.1	1268.2	1276.3	1292.6	1434.9	1526.2	1494.3	1341.4
47.5°	1888.0	1883.3	1855.7	1702.4	1553.9	1536.1	1562.7	1663.8	1786.1	1791.2	1609.3
50°	2125.3	2150.4	2109.3	2049.3	1938.9	1901.5	1891.7	1941.1	2127.5	2103.1	1930.9
52.5°	2466.3	2479.4	2402.2	2386.9	2412.1	2290.5	2280.7	2292.7	2459.3	2375.7	2171.9
55°	2680.6	2673.0	2644.3	2763.6	2862.9	2711.2	2698.9	2650.4	2734.8	2568.2	2403.7
57.5°	2748.3	2759.2	2826.2	3042.0	3277.1	3148.3	3125.7	2988.2	2933.6	2747.6	2616.9
60°	2718.1	2738.1	2882.6	3203.6	3529.7	3510.3	3491.1	3260.0	3076.2	2897.5	2766.6
62.5°	2503.1	2531.1	2762.2	3174.9	3615.2	3735.6	3711.6	3429.6	3171.2	2970.3	2792.7
65°	2097.6	2118.4	2450.3	2913.9	3493.6	3812.8	3804.1	3482.7	3186.1	2903.7	2613.3
67.5°	1495.4	1565.9	1873.5	2455.7	3134.1	3681.1	3695.9	3419.0	3046.0	2615.8	2164.2
70°	940.0	988.0	1208.6	1758.1	2512.5	3229.4	3278.6	3127.5	2643.5	2039.0	1448.8
72.5°	448.3	484.0	641.3	1112.9	1773.4	2540.9	2579.9	2567.5	2044.1	1284.6	747.5
75°	199.8	213.3	306.0	568.1	1144.9	1707.9	1808.7	1825.4	1277.4	628.5	290.7
77.5°	101.9	102.3	143.4	275.1	571.7	1019.0	1039.0	1097.6	692.6	276.9	101.2
80°	54.2	57.9	76.0	129.9	296.6	501.8	499.3	548.8	307.1	135.7	33.8
82.5°	24.4	26.9	43.0	68.0	144.8	190.3	205.3	224.5	131.7	86.6	14.9
85°	7.3	8.7	21.1	34.2	52.4	54.9	61.5	79.3	74.6	61.5	7.7
87.5°	1.1	1.1	8.7	9.5	7.7	9.8	10.2	11.3	24.1	22.5	4.0
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: P651211

CATALOG NUMBER: GALN-SA1D-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3	443.3
2.5°	444.0	441.4	432.4	424.7	418.1	414.1	409.4	406.5	405.0	403.9	404.4
5°	445.8	439.6	423.9	411.6	402.2	391.9	385.0	381.1	379.2	376.3	376.3
7.5°	456.0	446.2	424.4	405.4	389.0	375.2	362.1	357.3	354.1	353.4	352.6
10°	470.5	458.2	428.3	402.2	378.9	359.9	341.4	325.0	312.3	304.6	303.5
12.5°	488.7	470.9	434.5	400.0	370.1	336.7	287.5	254.4	232.2	225.3	226.4
15°	505.5	486.2	440.7	398.1	354.1	279.1	223.5	185.6	174.3	173.2	173.6
17.5°	525.5	502.6	448.0	395.6	310.1	213.3	165.9	155.8	157.9	161.6	161.2
20°	546.2	520.1	456.7	380.3	247.5	160.5	146.7	147.8	151.0	154.3	155.0
22.5°	568.4	540.1	466.9	343.5	188.9	139.8	139.0	140.4	143.7	147.4	148.1
25°	599.0	565.2	474.6	295.5	143.1	129.2	130.6	133.2	136.1	140.1	140.9
27.5°	638.3	599.0	478.5	232.9	123.7	119.8	120.1	123.7	127.4	131.0	131.0
30°	689.3	639.4	470.5	176.1	114.3	110.6	109.2	111.3	116.1	119.8	120.1
32.5°	734.8	677.6	449.4	134.6	107.4	102.3	98.6	99.0	100.8	103.0	103.4
35°	780.3	714.8	413.4	113.2	100.1	94.3	88.8	85.9	84.4	83.3	84.4
37.5°	838.5	760.9	365.4	103.0	93.9	86.6	79.0	72.7	67.7	64.4	65.2
40°	913.4	825.0	308.6	96.5	88.1	79.3	69.1	61.1	52.4	49.5	48.0
42.5°	1037.2	922.2	248.9	91.0	82.2	71.7	59.0	48.0	40.0	37.1	37.8
45°	1232.6	1044.8	191.7	85.2	76.4	63.3	49.5	37.8	31.3	29.9	30.5
47.5°	1491.7	1203.5	147.8	78.6	69.1	54.2	38.9	29.9	25.8	25.5	25.1
50°	1735.6	1351.2	123.4	71.3	60.4	45.2	32.0	25.1	22.5	22.2	22.2
52.5°	1956.1	1457.1	100.4	63.0	51.0	37.1	26.9	22.2	20.0	18.9	18.9
55°	2152.2	1526.2	81.5	52.7	40.0	29.5	23.3	20.0	17.5	16.0	15.6
57.5°	2300.3	1534.7	61.1	42.2	29.9	23.0	20.0	17.5	14.5	12.7	12.0
60°	2363.6	1462.2	45.2	32.0	22.2	18.2	16.0	14.2	10.9	9.1	8.7
62.5°	2300.0	1321.4	33.5	24.4	17.1	13.5	11.3	10.5	7.7	5.5	5.1
65°	2071.8	1117.9	26.6	18.6	12.7	9.8	7.3	6.9	4.7	2.5	2.2
67.5°	1659.8	875.6	21.1	13.8	9.1	6.6	4.7	4.4	2.5	0.8	0.8
70°	1079.4	559.7	17.1	10.2	5.8	4.4	2.9	2.2	1.4	0.3	0.0
72.5°	533.9	261.6	13.8	8.0	4.0	2.2	1.1	0.8	1.1	0.0	0.0
75°	207.1	93.2	10.2	5.5	2.2	1.1	0.8	0.0	0.3	0.0	0.0
77.5°	68.8	30.9	6.2	2.9	1.4	0.8	0.0	0.0	0.0	0.0	0.0
80°	25.5	12.0	3.3	1.9	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	4.7	2.2	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.9	1.4	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	2.2	1.4	1.1	0.8	0.3	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)