

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: P527151

Luminaire Tested: **GALN-SA2A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4037 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

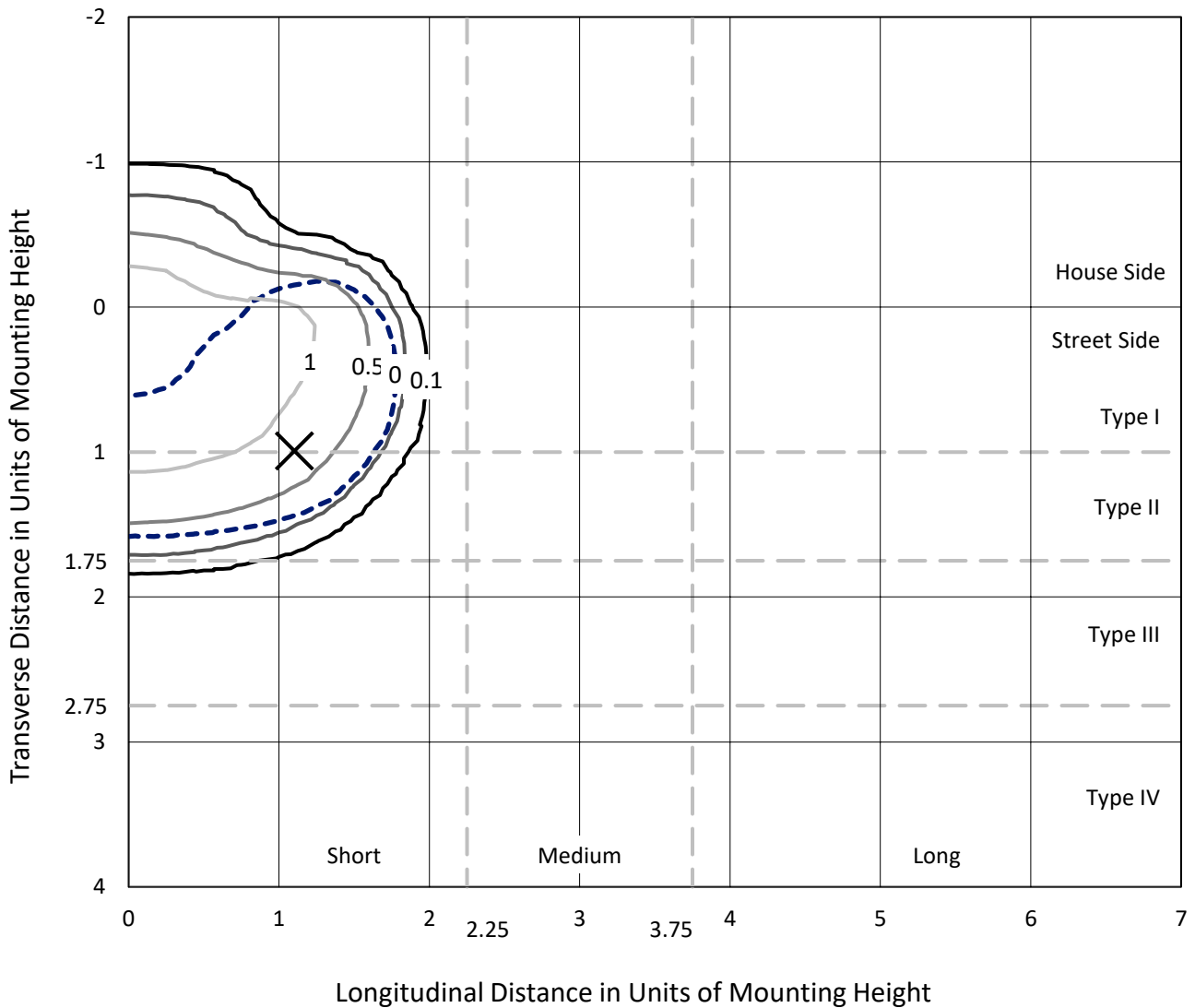
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

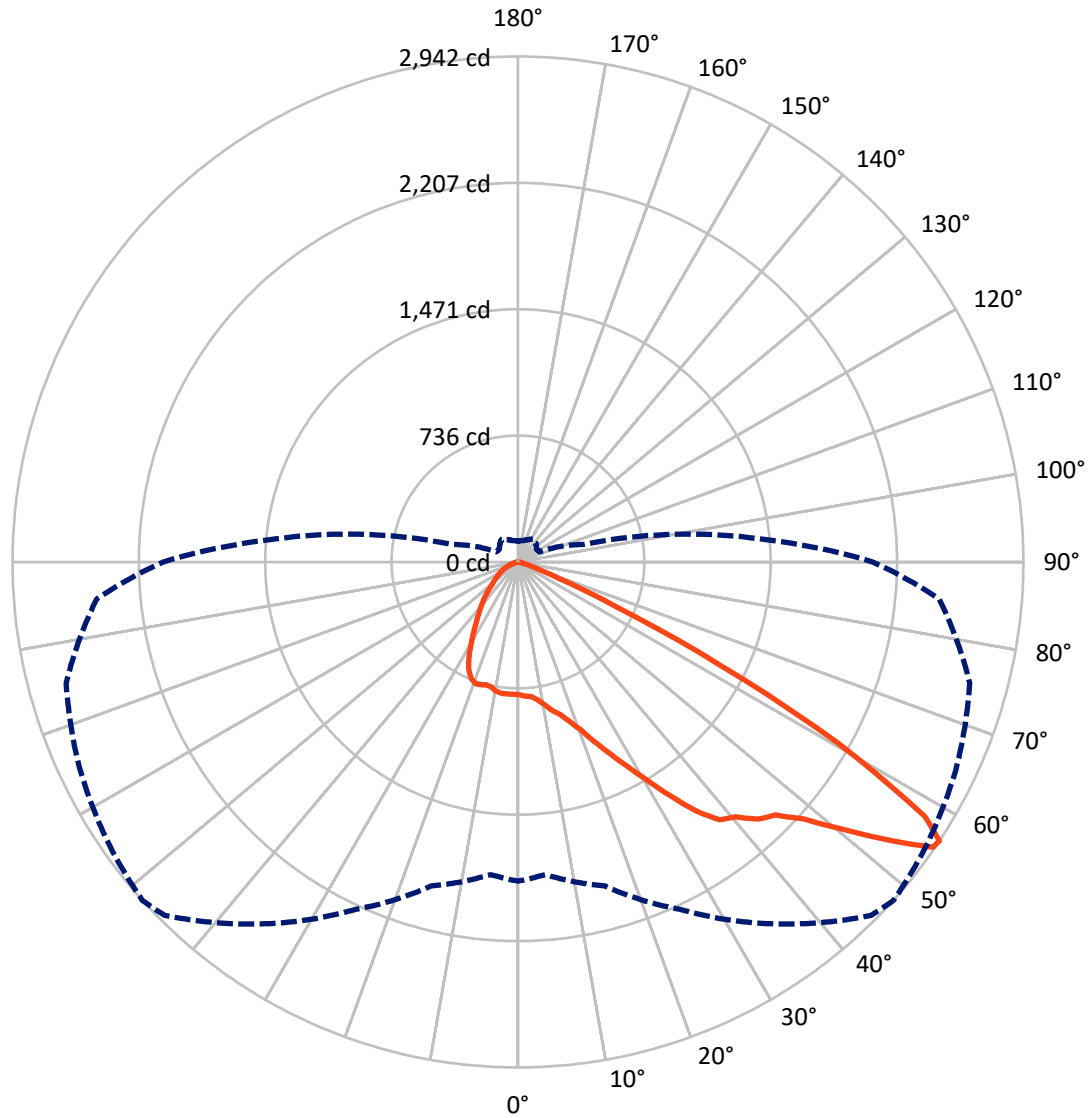
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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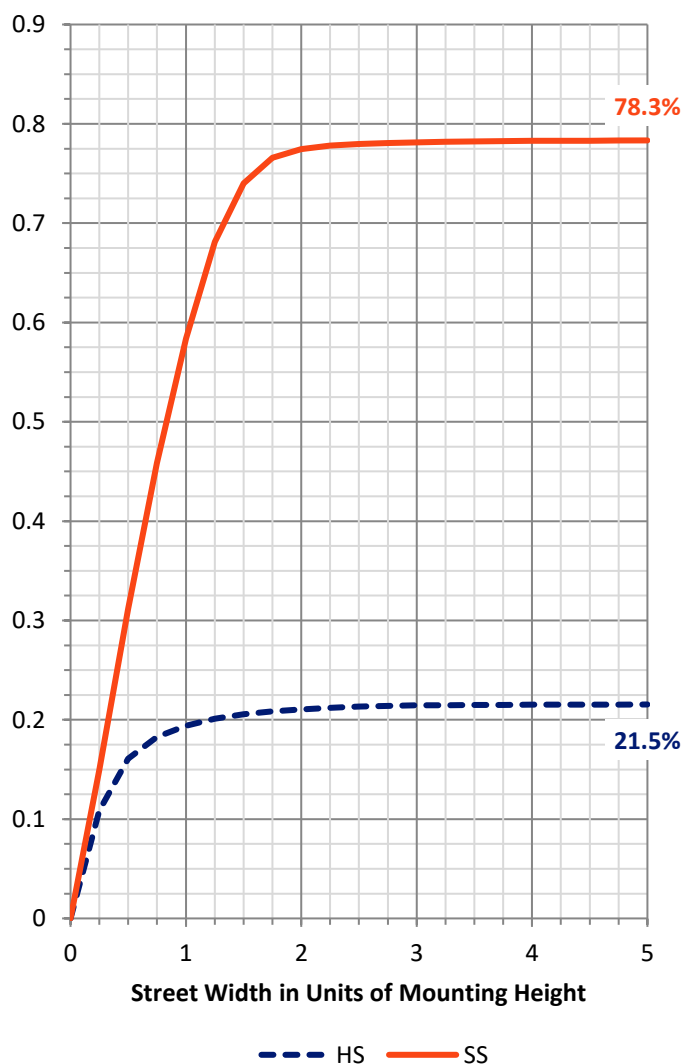
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.0	0.0	878.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3159.0	0.0	3159.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	4037.0	0.0	4037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.9
10°-20°	240.0	5.9
20°-30°	435.4	10.8
30°-40°	683.9	16.9
40°-50°	997.7	24.7
50°-60°	1202.0	29.8
60°-70°	351.9	8.7
70°-80°	44.6	1.1
80°-90°	6.2	0.2
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°	4037.0	100.0
0°-180°	4037.0	100.0

Coefficient of Utilization

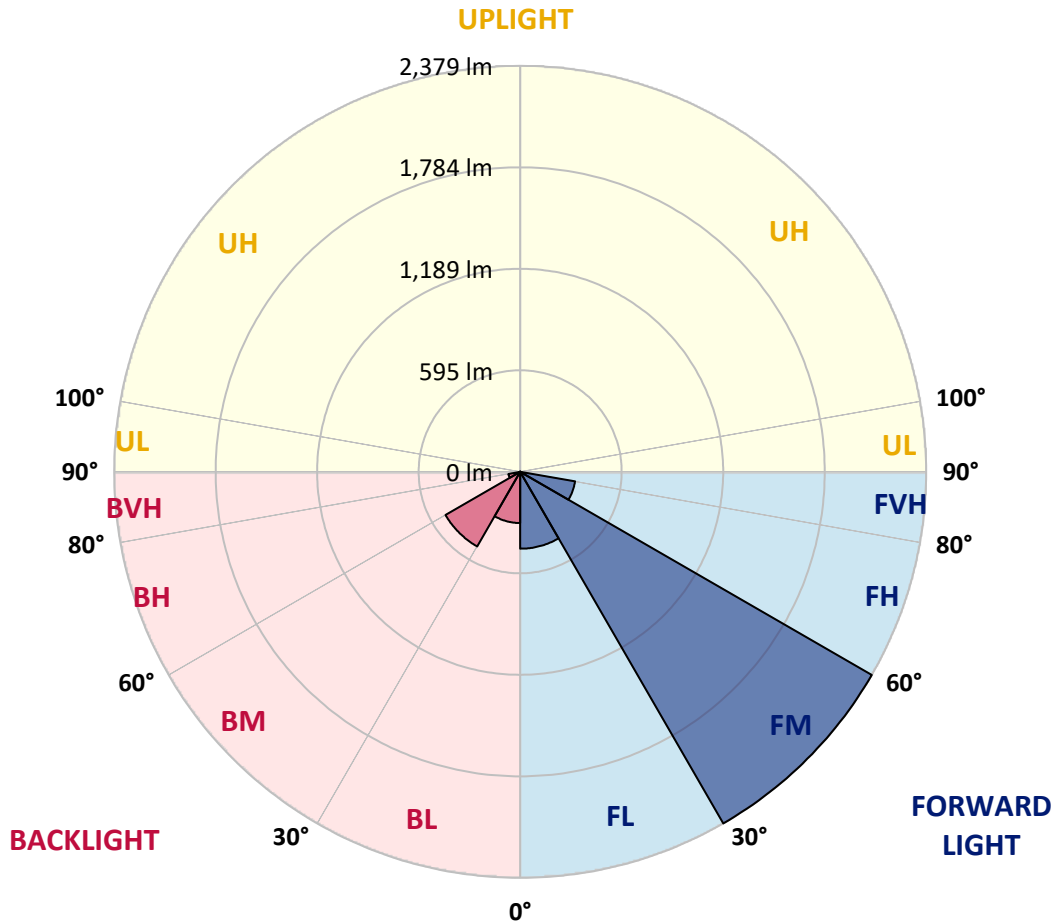


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.4	11.2			
FM (30°-60°)	2378.6	58.9			
FH (60°-80°)	326.8	8.1			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	300.1	7.4	B1/500		
BM (30°-60°)	505.0	12.5	B1/1000		
BH (60°-80°)	69.8	1.7	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1
2.5°	785.0	781.4	781.4	775.5	782.1	779.2	781.4	774.0	781.4	770.3	779.2
5°	788.7	789.4	786.5	790.2	790.2	794.6	787.2	793.9	797.5	789.4	785.8
7.5°	807.8	809.3	808.6	805.6	811.5	810.8	810.0	804.9	806.4	803.4	799.0
10°	845.3	844.6	848.2	840.9	836.5	841.6	843.1	835.0	829.1	826.9	813.0
12.5°	899.7	890.9	885.7	878.4	880.6	873.2	886.5	872.5	869.6	856.3	842.4
15°	943.8	942.3	943.1	931.3	918.1	921.0	921.0	913.7	909.3	893.1	873.2
17.5°	1034.2	1003.3	1010.0	995.3	984.2	983.5	976.9	978.4	966.6	932.8	902.6
20°	1104.8	1091.6	1081.3	1056.3	1039.4	1044.5	1041.6	1034.2	1030.5	986.4	943.8
22.5°	1168.0	1172.4	1155.5	1148.9	1125.4	1127.6	1133.4	1126.8	1098.9	1053.3	990.1
25°	1256.9	1251.8	1229.0	1220.9	1198.9	1207.0	1229.7	1224.6	1207.0	1124.6	1026.1
27.5°	1362.0	1344.4	1348.8	1312.1	1290.7	1313.5	1340.7	1366.5	1316.5	1208.4	1068.8
30°	1436.3	1417.9	1416.4	1415.0	1409.8	1436.3	1467.9	1491.4	1451.0	1292.2	1139.3
32.5°	1473.0	1477.5	1489.9	1485.5	1530.4	1584.8	1617.8	1651.7	1600.9	1428.9	1232.7
35°	1570.8	1542.9	1570.8	1573.7	1620.1	1735.5	1777.4	1858.2	1845.7	1622.3	1346.6
37.5°	1628.1	1625.9	1629.6	1657.5	1702.4	1845.0	1904.5	1967.0	1943.5	1738.4	1488.5
40°	1723.0	1728.8	1728.1	1749.4	1798.7	1927.3	1951.6	2002.3	2004.5	1899.4	1697.2
42.5°	1875.1	1851.6	1836.2	1858.2	1927.3	1998.6	2047.1	2036.8	2109.6	2094.9	1965.5
45°	2011.8	2025.8	2003.0	2039.8	2064.8	2103.0	2101.5	2123.6	2216.2	2286.0	2167.7
47.5°	2139.7	2148.6	2159.6	2184.6	2239.0	2244.8	2232.4	2222.8	2350.7	2422.7	2324.2
50°	2216.2	2224.3	2275.7	2320.6	2422.0	2435.2	2442.6	2418.3	2505.1	2513.1	2472.0
52.5°	2195.6	2204.4	2276.5	2424.2	2585.9	2707.2	2685.1	2644.0	2638.8	2670.4	2608.7
55°	2013.3	2005.2	2104.5	2334.5	2637.4	2928.4	2931.4	2888.0	2805.0	2783.6	2588.1
56°	1858.2	1826.6	1953.0	2230.9	2571.2	2909.3	2942.4	2896.1	2818.2	2722.6	2461.0
57.5°	1522.3	1552.4	1678.1	1908.2	2342.6	2771.9	2791.0	2780.0	2721.2	2560.9	2165.5
60°	839.4	892.4	1003.3	1284.9	1667.8	2127.2	2142.7	2232.4	2243.4	1961.1	1489.9
62.5°	356.5	350.6	466.0	673.3	949.7	1284.1	1312.8	1404.7	1421.6	1130.5	747.5
65°	144.8	152.9	211.0	338.9	502.0	585.1	625.5	655.7	711.5	466.8	275.6
67.5°	95.6	94.8	124.2	193.3	270.5	260.9	260.9	275.6	255.1	190.4	119.1
70°	68.4	70.6	88.9	133.8	168.3	125.0	119.8	114.7	130.1	125.7	96.3
72.5°	44.8	47.8	59.5	80.1	87.5	68.4	68.4	82.3	107.3	101.4	78.7
75°	29.4	30.1	36.8	46.3	43.4	35.3	39.0	55.1	77.9	75.0	55.9
77.5°	19.8	20.6	25.0	30.1	24.3	19.8	21.3	27.9	38.2	38.2	29.4
80°	7.4	8.1	10.3	9.6	11.0	14.0	15.4	19.1	22.8	22.8	19.8
82.5°	0.0	0.7	2.2	5.1	8.1	11.0	12.5	14.7	16.9	19.1	18.4
85°	0.0	0.7	2.2	3.7	5.9	6.6	7.4	5.1	4.4	4.4	3.7
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.5	0.7	0.7
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°	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1	771.1
2.5°	771.1	770.3	770.3	768.1	772.5	770.3	771.8	771.1	761.5	768.9	763.7
5°	779.2	784.3	776.2	774.7	768.9	771.1	771.1	763.7	770.3	769.6	768.1
7.5°	799.7	790.9	782.1	773.3	771.8	769.6	761.5	758.6	763.7	757.8	766.7
10°	808.6	810.0	796.8	785.0	774.0	758.6	747.5	740.9	732.8	741.7	746.8
12.5°	849.0	834.3	811.5	793.1	755.6	740.2	729.2	726.2	740.2	743.1	738.0
15°	863.0	860.7	831.3	790.2	751.2	732.8	735.1	729.2	730.6	723.3	724.8
17.5°	891.6	866.6	832.1	780.6	750.5	746.1	732.8	709.3	696.1	690.2	695.4
20°	923.2	899.0	849.0	784.3	757.1	745.3	702.0	673.3	646.1	631.4	632.1
22.5°	951.2	921.0	841.6	785.8	763.0	714.5	662.3	605.7	571.9	549.1	549.8
25°	985.0	942.3	844.6	788.7	747.5	665.2	590.2	535.1	494.7	479.3	484.4
27.5°	1004.1	955.6	860.7	795.3	707.1	595.4	514.5	463.1	439.6	432.2	431.5
30°	1061.4	985.0	880.6	782.1	639.5	520.4	445.4	413.8	391.0	384.4	385.9
32.5°	1146.7	1038.6	906.3	747.5	570.4	453.5	400.6	377.1	355.8	343.3	341.8
35°	1218.0	1130.5	933.5	693.9	490.3	402.1	369.0	339.6	307.3	293.3	289.6
37.5°	1354.0	1234.2	927.6	613.0	413.8	363.9	335.2	299.2	271.2	252.1	249.9
40°	1534.8	1355.4	899.0	514.5	357.2	330.0	299.2	264.6	230.1	213.9	212.4
42.5°	1754.6	1503.9	846.8	414.6	300.6	296.2	268.3	228.6	197.7	186.0	186.7
45°	1933.2	1631.1	793.9	333.0	258.7	263.1	238.9	201.4	180.1	170.5	170.5
47.5°	2092.0	1717.1	736.5	274.9	219.8	230.1	208.8	186.7	168.3	161.0	159.5
50°	2244.8	1804.6	679.2	222.7	187.4	197.7	195.5	177.9	163.2	154.4	155.1
52.5°	2340.4	1818.5	606.4	182.3	163.9	175.7	183.0	166.9	150.7	145.5	144.1
55°	2223.5	1638.4	470.4	150.0	138.9	154.4	168.3	150.0	137.5	128.6	127.9
56°	2066.2	1465.0	393.3	138.2	131.6	148.5	163.2	143.3	129.4	124.2	120.5
57.5°	1749.4	1198.9	290.3	122.8	122.0	138.2	155.1	136.7	120.5	116.1	116.1
60°	1090.8	674.8	175.7	102.9	105.8	122.8	139.7	122.0	107.3	107.3	109.5
62.5°	496.9	280.8	106.6	87.5	91.1	105.8	124.2	110.3	102.2	110.3	111.7
65°	169.1	121.3	77.2	69.8	72.0	87.5	106.6	111.7	111.0	116.1	119.1
67.5°	94.8	77.9	64.7	58.1	56.6	64.7	87.5	111.7	107.3	105.1	106.6
70°	80.1	66.2	57.3	51.5	49.2	52.2	67.6	84.5	75.7	73.5	72.0
72.5°	64.7	55.1	50.0	46.3	39.7	33.8	30.9	32.3	36.0	38.2	41.9
75°	45.6	41.9	41.9	37.5	28.7	21.3	16.9	14.0	9.6	6.6	7.4
77.5°	25.7	25.7	26.5	22.8	18.4	14.0	10.3	7.4	3.7	1.5	0.7
80°	17.6	19.1	20.6	18.4	15.4	12.5	8.8	5.1	2.2	0.0	0.0
82.5°	17.6	19.8	21.3	18.4	15.4	11.8	8.8	5.1	2.2	0.7	0.0
85°	3.7	4.4	5.1	5.9	8.8	8.8	6.6	4.4	2.2	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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)