

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: P527150

Luminaire Tested: **GALN-SA2A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5941 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

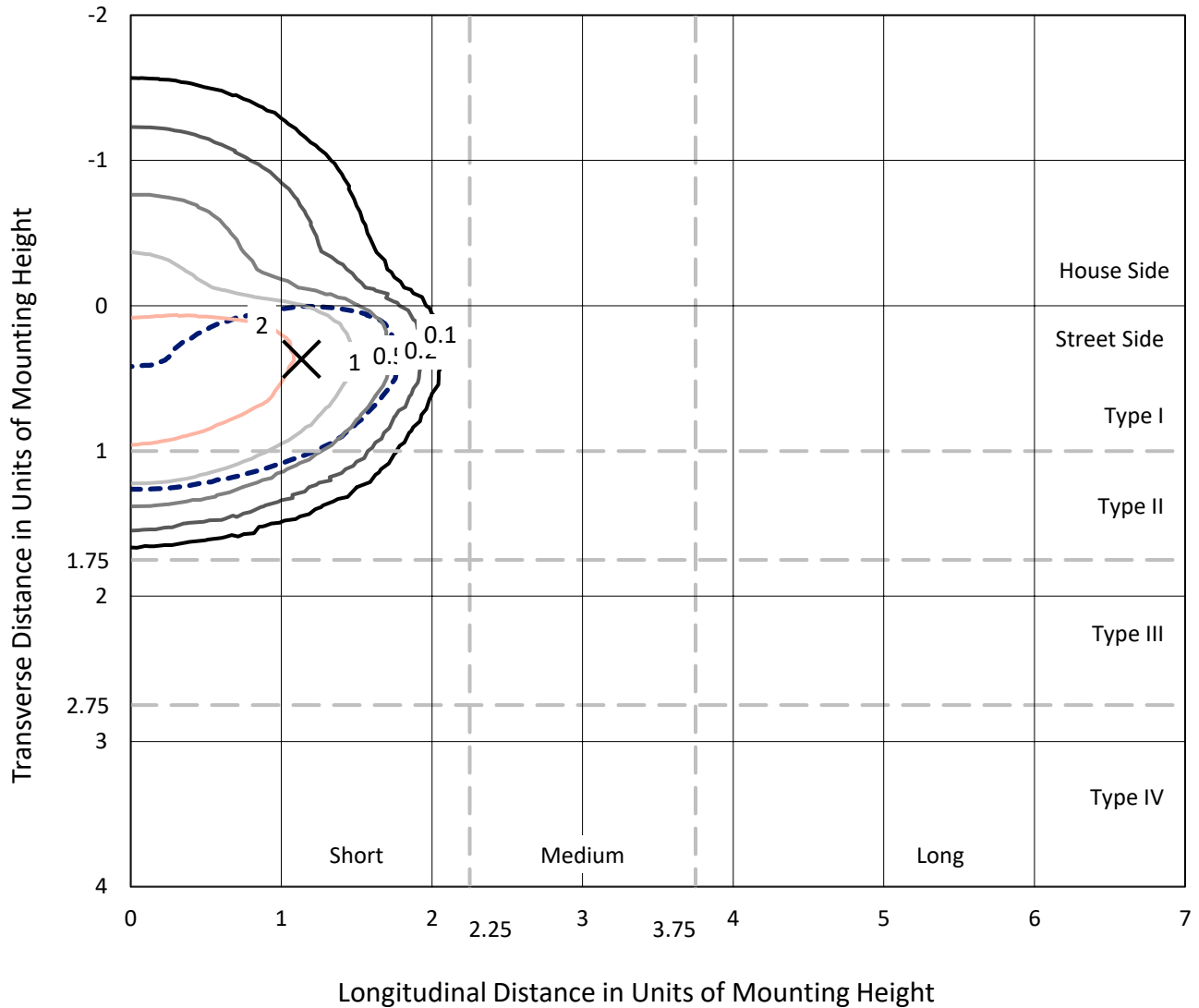
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

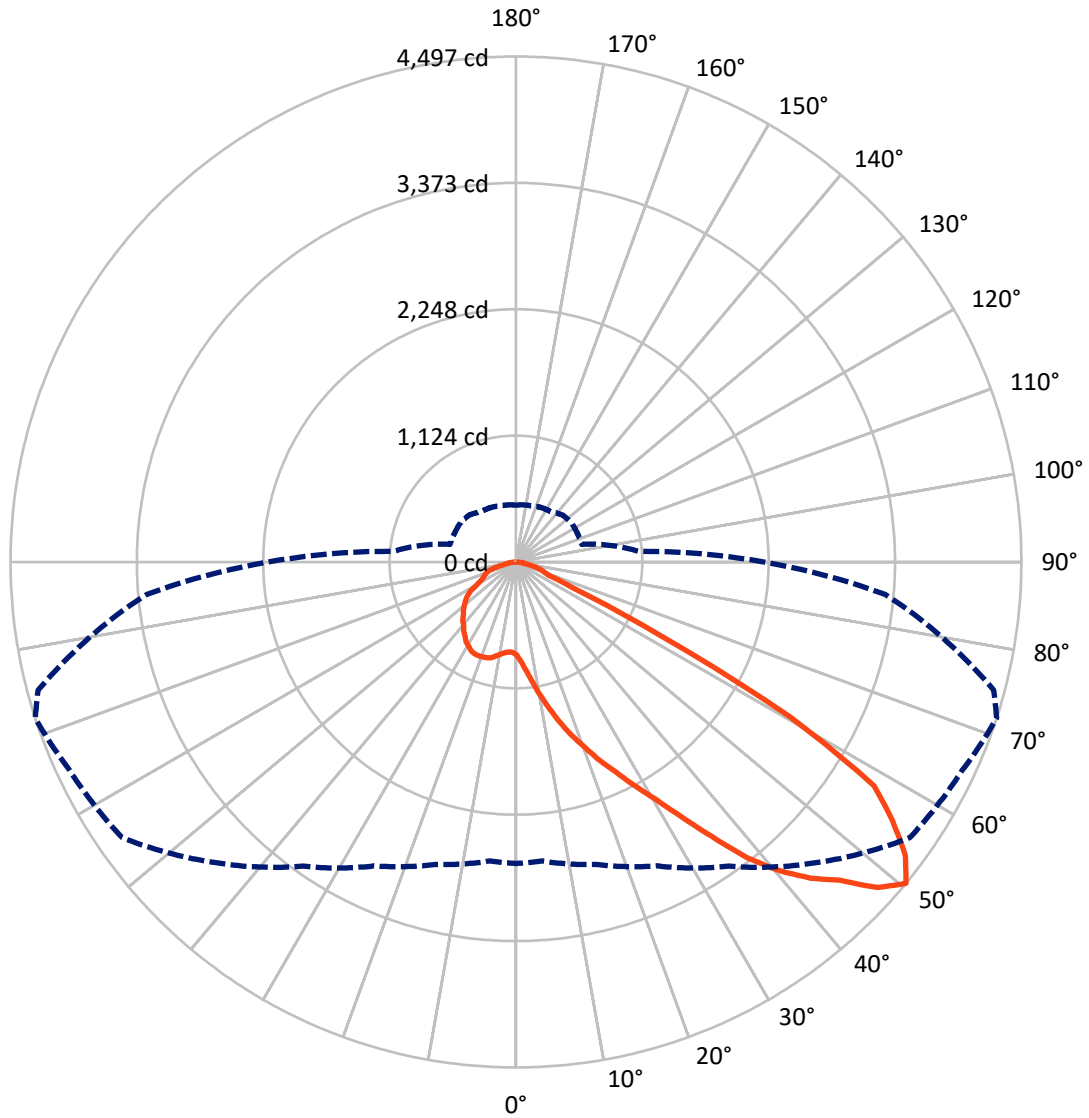
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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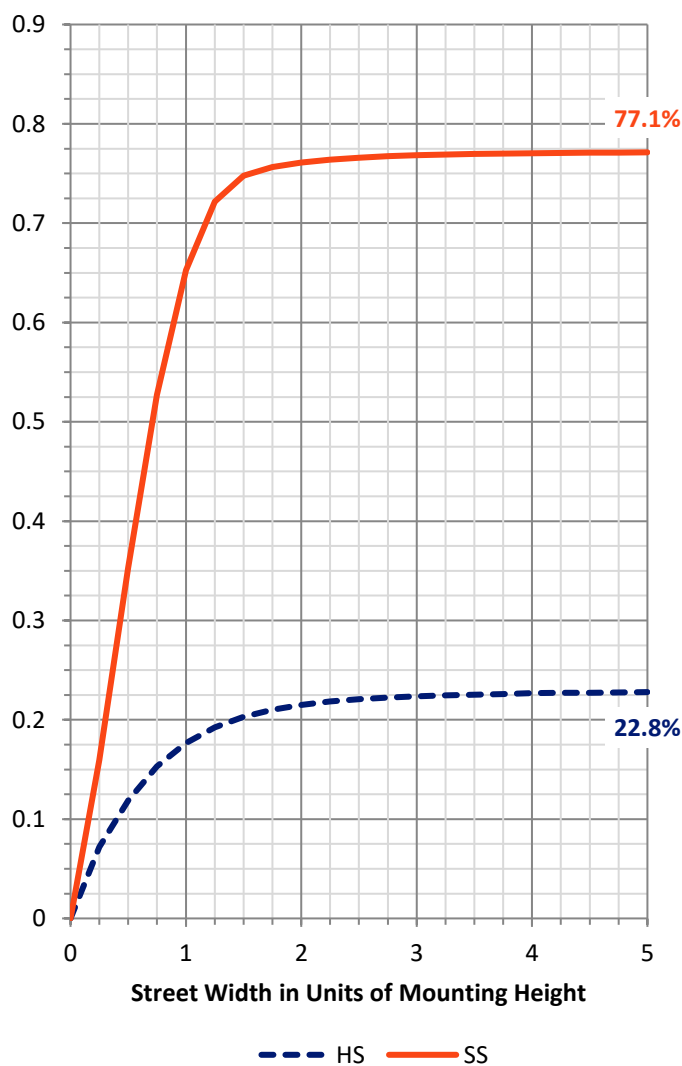
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1361.1	0.0	1361.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4579.9	0.0	4579.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	5941.0	0.0	5941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.6
10°-20°	363.7	6.1
20°-30°	705.1	11.9
30°-40°	1168.2	19.7
40°-50°	1634.5	27.5
50°-60°	1378.9	23.2
60°-70°	420.3	7.1
70°-80°	147.4	2.5
80°-90°	25.6	0.4
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°	5941.0	100.0
0°-180°	5941.0	100.0

Coefficient of Utilization

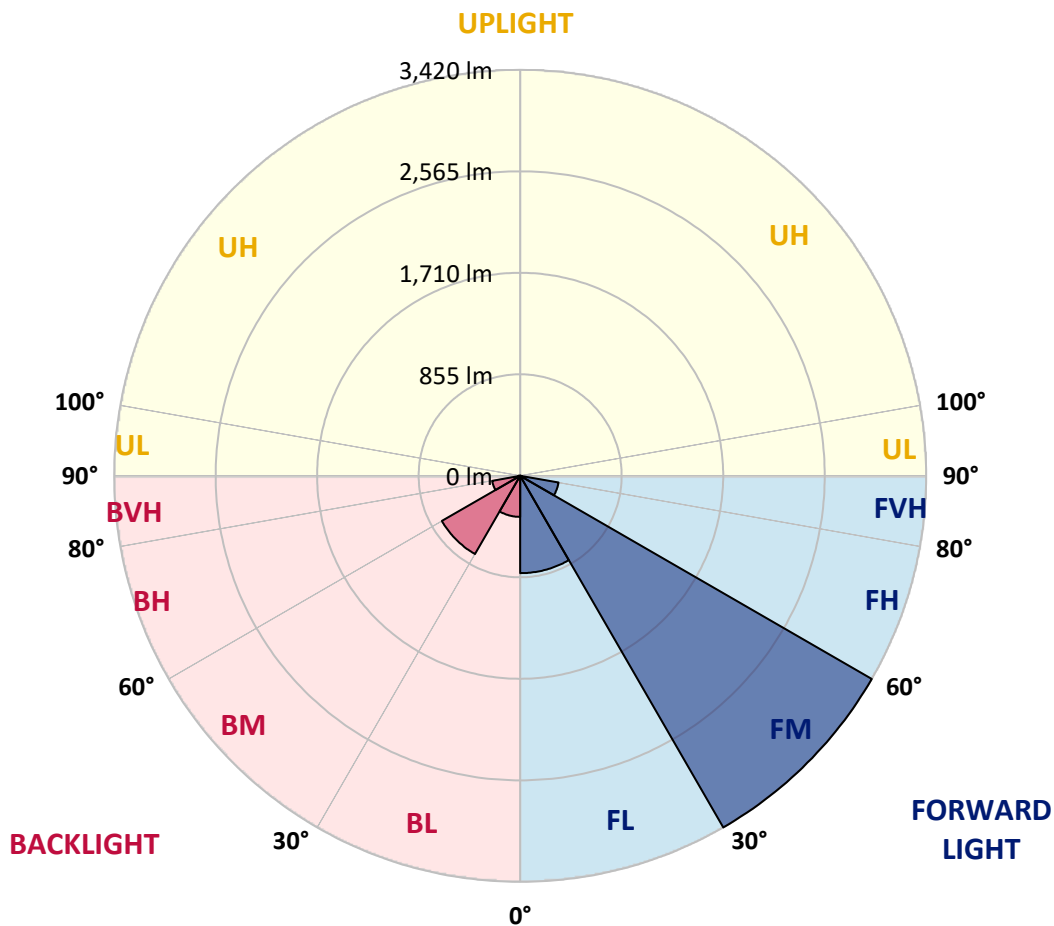


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.1	13.8			
FM (30°-60°)	3420.4	57.6			
FH (60°-80°)	327.9	5.5			G0/660
FVH (80°-90°)	11.5	0.2			G1/100
BL (0°-30°)	346.0	5.8	B1/500		
BM (30°-60°)	761.2	12.8	B1/1000		
BH (60°-80°)	239.8	4.0	B1/500		G1/500
BVH (80°-90°)	14.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	1063.8	1057.1	1037.3	1030.7	1007.1	964.5	949.8	906.4	888.1	871.1	851.3
5°	1345.3	1314.4	1312.2	1274.7	1220.3	1188.7	1094.6	1031.4	973.3	943.9	889.5
7.5°	1524.7	1525.4	1525.4	1494.5	1451.2	1371.0	1286.5	1172.6	1085.1	1041.7	949.1
10°	1695.2	1680.5	1672.5	1669.5	1640.1	1562.2	1471.8	1330.6	1210.8	1160.1	993.9
12.5°	1815.8	1803.3	1821.7	1812.1	1790.8	1740.1	1654.8	1493.8	1343.8	1275.5	1066.0
15°	1873.1	1882.0	1896.7	1923.1	1913.6	1894.5	1800.4	1661.4	1487.2	1410.0	1129.9
17.5°	1961.4	1937.1	1954.7	1987.8	2014.3	2005.5	1951.8	1782.7	1629.1	1534.2	1215.9
20°	2023.1	2009.2	2018.0	2056.2	2076.0	2126.0	2098.1	1941.5	1765.1	1665.1	1317.4
22.5°	2199.6	2179.0	2150.3	2156.2	2163.5	2198.8	2205.4	2115.7	1923.1	1817.3	1413.7
25°	2417.2	2398.0	2364.2	2329.7	2308.4	2301.7	2324.5	2252.5	2074.6	1965.0	1517.3
27.5°	2656.8	2624.5	2603.1	2531.8	2474.5	2465.7	2454.6	2415.7	2254.0	2135.6	1634.2
30°	2889.9	2864.1	2835.5	2721.5	2662.0	2652.4	2598.0	2609.0	2448.8	2317.2	1766.6
32.5°	3066.3	3068.5	3003.1	2917.1	2861.2	2810.5	2790.6	2822.2	2698.7	2592.9	1914.3
35°	3208.9	3215.5	3153.0	3075.1	3014.8	3050.1	3041.3	3056.0	2997.2	2867.8	2086.3
37.5°	3347.8	3314.8	3247.9	3210.4	3178.8	3236.8	3311.8	3324.3	3335.4	3183.2	2286.3
40°	3370.6	3373.6	3334.6	3361.1	3321.4	3408.9	3583.1	3566.9	3611.8	3478.7	2503.2
42.5°	3338.3	3344.9	3360.3	3397.8	3493.4	3598.5	3857.3	3791.1	3845.5	3727.2	2714.2
45°	3285.4	3258.2	3277.3	3419.9	3585.3	3819.1	4108.0	4056.5	4038.9	3939.6	2965.6
47.5°	3032.5	3060.4	3120.0	3295.7	3544.1	3857.3	4285.9	4274.1	4327.1	4257.2	3194.2
50°	2681.8	2670.8	2785.5	2983.2	3303.7	3782.3	4276.3	4382.9	4496.9	4399.8	3296.4
52.5°	2008.4	2067.2	2165.7	2411.3	2868.5	3373.6	4067.6	4245.5	4338.1	4317.5	3214.1
55°	1269.6	1287.2	1346.8	1638.6	2050.3	2707.5	3486.8	3899.2	4064.6	4141.8	3138.3
57.5°	616.8	583.7	656.5	891.0	1184.3	1821.0	2689.2	3396.4	3755.9	3895.5	2973.7
60°	322.0	334.5	363.2	447.0	612.4	945.4	1676.1	2263.5	2812.7	3027.3	2254.0
62.5°	266.9	271.3	290.4	332.3	407.3	544.0	855.7	1103.5	1434.3	1627.6	1282.1
65°	226.4	228.6	249.2	277.1	324.9	383.0	440.4	460.9	558.0	572.7	455.8
67.5°	188.9	191.1	213.2	239.7	270.5	286.0	300.7	299.2	310.2	305.8	305.1
70°	145.6	147.8	170.6	198.5	213.9	205.1	250.7	261.0	265.4	269.1	274.9
72.5°	105.1	109.5	127.2	147.0	138.9	159.5	206.6	222.0	227.9	230.1	237.5
75°	76.5	77.9	82.3	76.5	88.2	111.0	145.6	164.7	172.0	174.2	185.3
77.5°	33.8	34.6	35.3	44.1	56.6	69.1	86.7	102.2	112.5	115.4	118.4
80°	17.6	18.4	22.8	30.1	40.4	50.7	63.2	72.0	78.7	79.4	82.3
82.5°	11.0	11.8	16.2	21.3	28.7	37.5	46.3	53.7	58.8	59.5	60.3
85°	5.1	6.6	9.6	13.2	19.1	24.3	25.0	21.3	22.8	23.5	22.1
87.5°	1.5	2.2	2.9	2.2	2.9	2.9	3.7	4.4	4.4	4.4	5.1
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°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	840.3	833.7	807.9	798.4	773.4	777.8	764.6	763.8	760.9	760.1	759.4
5°	860.9	840.3	809.4	785.9	771.9	770.4	760.9	760.9	763.8	766.0	760.9
7.5°	894.7	871.1	819.0	796.9	784.4	782.2	775.6	770.4	777.0	774.8	769.0
10°	933.6	892.5	837.3	818.2	797.6	792.5	792.5	794.7	783.7	787.3	781.5
12.5°	977.0	921.9	860.9	838.8	814.5	811.6	810.1	794.0	799.8	796.9	782.2
15°	1032.1	955.7	891.0	853.5	832.9	819.7	800.6	797.6	794.0	786.6	780.0
17.5°	1091.7	992.4	905.0	857.9	827.0	817.5	802.8	787.3	776.3	777.8	772.6
20°	1142.4	1026.3	910.1	862.3	822.6	804.2	781.5	771.9	760.1	759.4	758.7
22.5°	1202.7	1071.8	917.5	850.6	809.4	790.3	774.8	757.9	749.8	739.6	744.7
25°	1274.7	1089.5	918.9	843.9	799.8	766.0	757.9	739.6	736.6	721.9	724.9
27.5°	1326.9	1099.0	907.2	823.4	777.8	752.1	737.4	724.1	719.0	707.9	705.0
30°	1396.8	1113.7	882.2	797.6	755.7	727.1	718.2	715.3	700.6	688.8	687.4
32.5°	1476.2	1123.3	866.0	771.2	732.9	710.9	715.3	701.3	682.9	672.7	669.7
35°	1539.4	1127.0	825.6	741.0	717.5	703.5	698.4	695.4	669.0	659.4	652.1
37.5°	1635.7	1118.9	791.8	719.7	700.6	695.4	691.0	671.2	641.0	627.1	616.8
40°	1748.2	1116.7	748.4	689.6	684.4	690.3	677.1	646.2	604.3	588.9	581.5
42.5°	1856.2	1132.1	721.2	673.4	666.8	669.0	650.6	604.3	583.7	574.9	563.1
45°	2037.1	1164.5	676.3	648.4	645.5	644.0	621.9	573.4	561.7	550.6	548.4
47.5°	2200.3	1143.2	647.7	622.7	625.6	617.5	570.5	555.0	541.8	530.8	527.1
50°	2209.8	1092.4	607.2	602.8	603.6	589.6	544.7	534.5	517.5	510.2	505.0
52.5°	2159.9	1009.4	569.7	571.2	573.4	550.6	513.1	505.8	491.8	481.5	478.6
55°	2019.4	880.0	533.0	538.9	544.7	501.4	489.6	471.2	460.2	445.5	446.2
57.5°	1779.1	708.7	481.5	491.1	503.6	455.8	447.0	424.2	408.0	396.2	394.8
60°	1192.4	504.3	404.3	408.0	435.9	416.8	416.1	393.3	371.2	361.0	355.1
62.5°	703.5	385.2	349.2	345.5	344.8	355.8	374.2	366.1	337.4	317.6	323.5
65°	368.3	333.0	324.9	312.4	305.1	302.1	316.1	319.8	300.7	279.4	277.9
67.5°	309.5	309.5	302.9	298.5	288.2	275.7	266.9	255.1	252.2	246.3	238.9
70°	281.6	288.9	286.7	276.4	267.6	253.6	230.8	211.7	193.3	186.7	191.1
72.5°	245.5	252.9	252.9	247.7	236.0	214.7	192.6	170.6	155.1	143.4	141.9
75°	188.9	192.6	201.4	195.5	180.1	166.9	144.1	121.3	106.6	95.6	93.4
77.5°	120.6	126.4	126.4	125.7	114.7	102.2	87.5	71.3	60.3	52.2	50.0
80°	80.1	83.8	86.7	83.8	76.5	66.9	55.9	44.8	36.8	30.1	28.7
82.5°	58.8	63.2	65.4	62.5	55.1	47.8	39.7	31.6	23.5	18.4	16.9
85°	22.8	23.5	26.5	31.6	30.9	30.1	24.3	17.6	13.2	9.6	8.8
87.5°	5.9	5.1	5.9	5.9	5.1	4.4	4.4	4.4	4.4	2.2	2.9
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)