

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: P526343

Luminaire Tested: **GALN-SA1B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3547 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

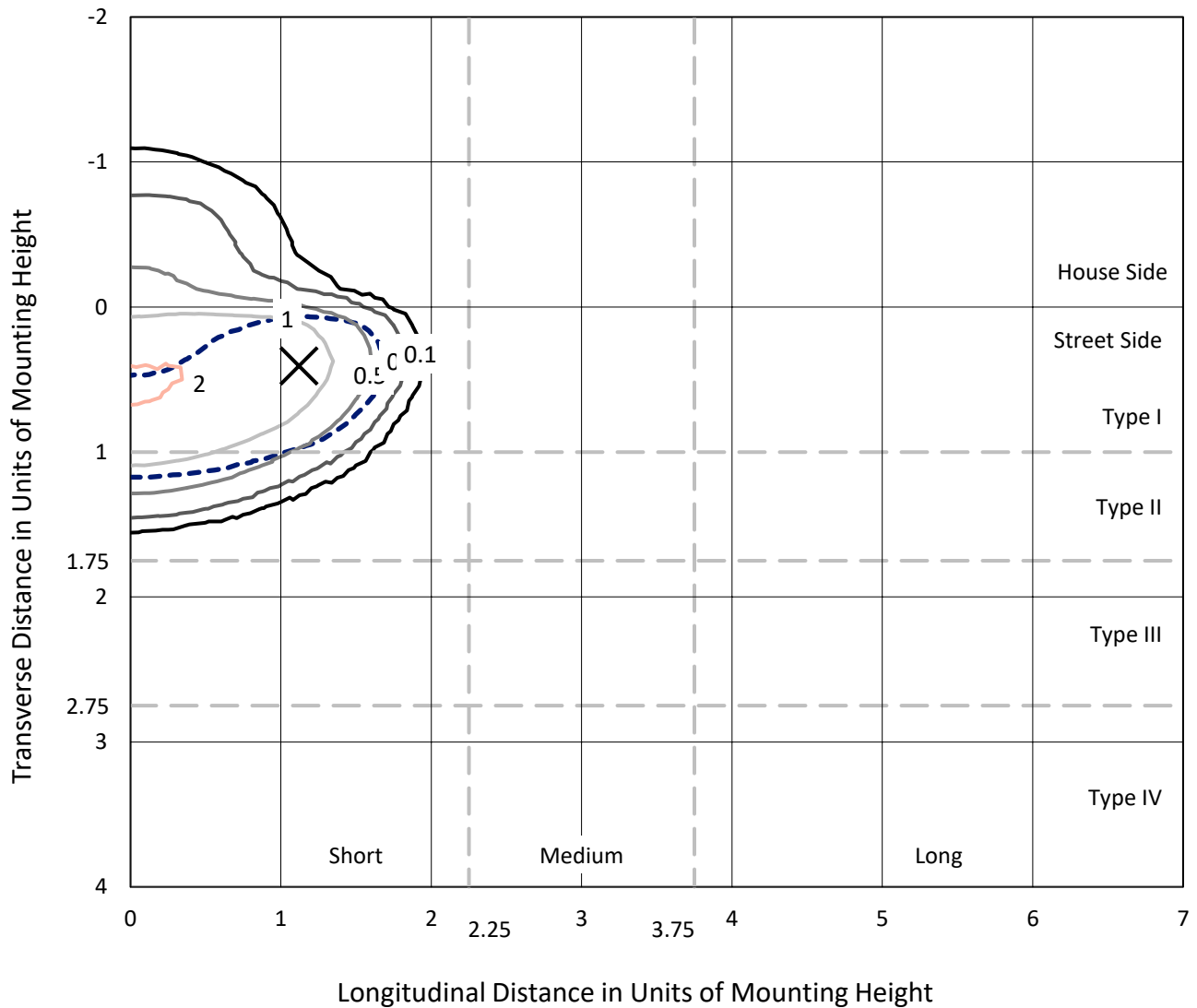
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

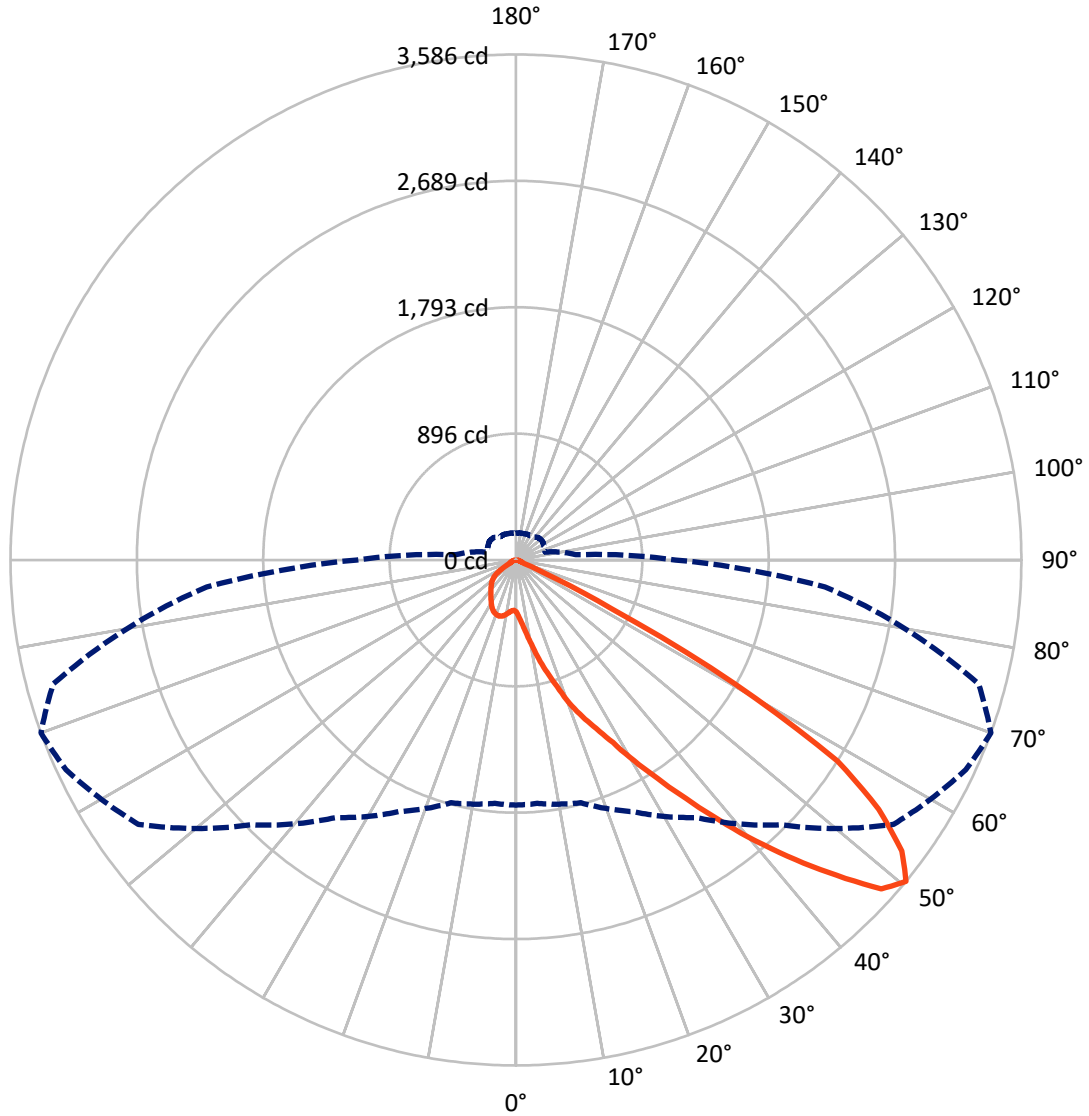
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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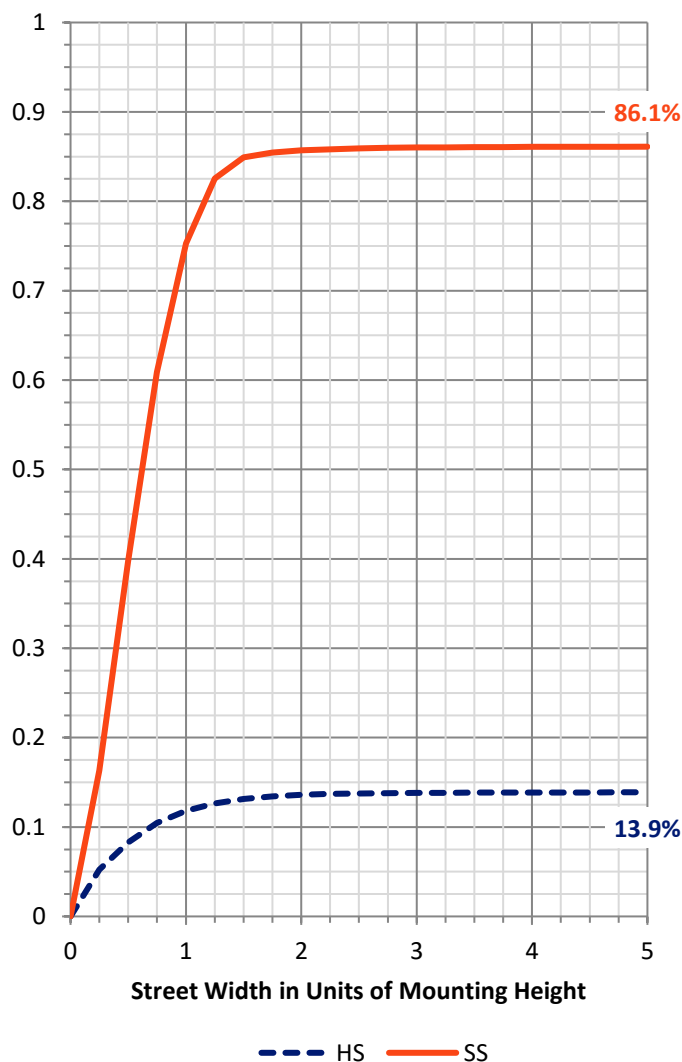
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.4	0.0	495.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3051.6	0.0	3051.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	3547.0	0.0	3547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.3
10°-20°	206.7	5.8
20°-30°	433.5	12.2
30°-40°	747.3	21.1
40°-50°	1092.1	30.8
50°-60°	850.6	24.0
60°-70°	144.1	4.1
70°-80°	19.8	0.6
80°-90°	5.1	0.1
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°	3547.0	100.0
0°-180°	3547.0	100.0

Coefficient of Utilization



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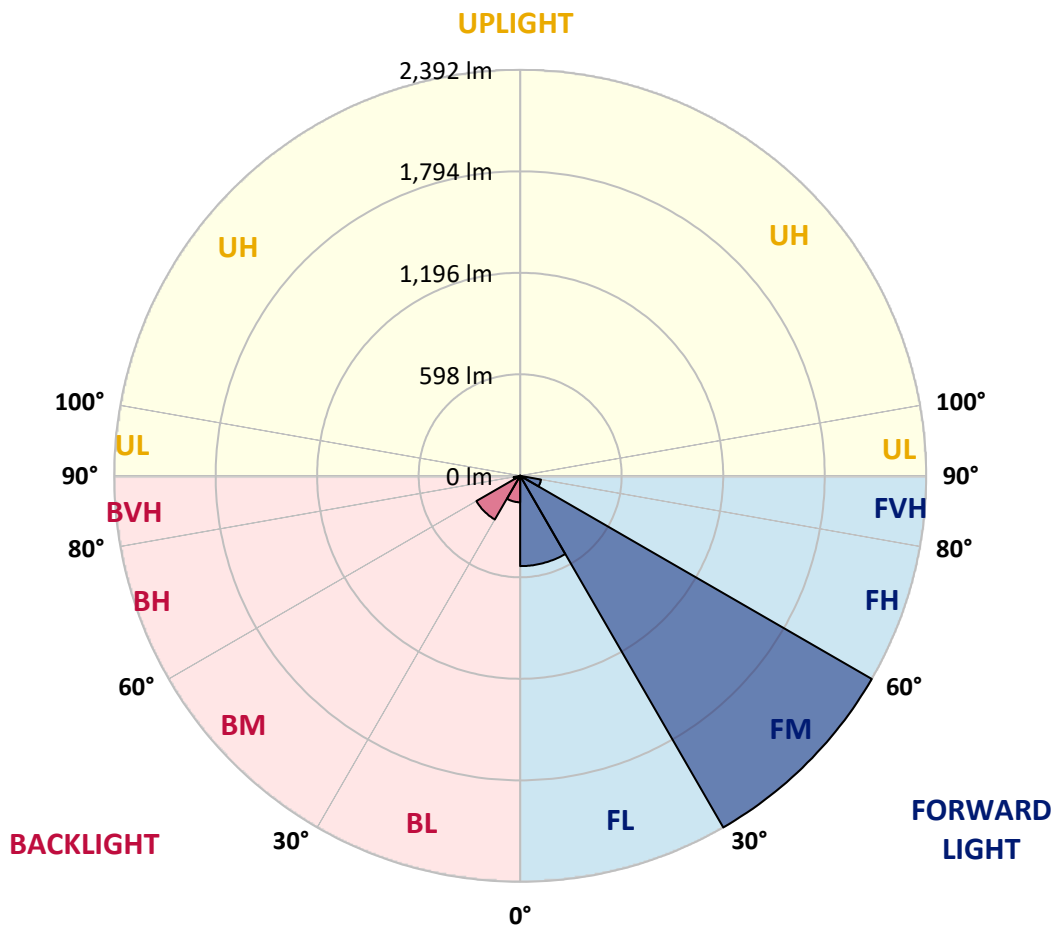
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.1	15.0			
FM (30°-60°)	2392.4	67.4			
FH (60°-80°)	124.8	3.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	155.9	4.4	B1/500		
BM (30°-60°)	297.6	8.4	B1/1000		
BH (60°-80°)	39.1	1.1	B0/110		G0/110
BVH (80°-90°)	2.8	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4
2.5°	481.1	477.6	470.0	456.0	450.2	436.2	428.0	412.3	402.4	391.3	379.1
5°	677.6	659.6	648.5	632.7	586.7	558.1	510.9	470.6	452.0	431.5	403.6
7.5°	880.6	868.9	853.8	819.9	788.5	729.0	647.9	559.3	521.4	486.4	431.0
10°	1048.5	1015.9	1014.1	989.1	954.7	883.5	786.1	675.9	608.3	556.9	470.0
12.5°	1165.8	1136.0	1149.4	1146.5	1114.4	1049.1	936.6	790.8	720.2	640.3	510.3
15°	1272.5	1260.2	1256.2	1252.7	1239.8	1191.4	1090.5	930.7	828.7	732.5	555.8
17.5°	1376.9	1345.4	1360.5	1363.5	1362.3	1318.6	1224.1	1063.7	943.6	829.9	603.6
20°	1469.6	1472.5	1452.1	1448.0	1444.5	1442.8	1350.6	1195.5	1084.7	931.9	666.0
22.5°	1588.6	1568.2	1586.2	1574.6	1551.8	1537.8	1467.3	1312.1	1207.2	1055.0	729.6
25°	1729.1	1745.4	1702.9	1698.2	1673.1	1624.7	1561.2	1442.8	1325.0	1169.3	798.4
27.5°	1902.3	1873.7	1862.7	1837.0	1791.5	1771.1	1696.5	1577.5	1467.3	1289.4	864.8
30°	2051.0	2043.4	1988.0	1957.7	1918.1	1917.5	1813.1	1760.0	1652.7	1477.8	956.4
32.5°	2172.3	2139.1	2118.7	2097.7	2065.6	2074.3	1986.3	1958.3	1850.4	1652.7	1064.3
35°	2253.4	2229.5	2217.2	2185.2	2175.8	2214.9	2178.2	2166.5	2077.8	1898.8	1190.8
37.5°	2279.0	2286.6	2284.3	2244.1	2263.9	2369.4	2416.7	2386.3	2339.7	2158.3	1327.9
40°	2301.8	2307.0	2295.4	2342.6	2399.2	2519.3	2690.2	2640.0	2622.5	2421.3	1518.6
42.5°	2314.6	2310.5	2310.5	2392.2	2477.9	2719.3	2954.4	2921.1	2907.7	2701.3	1739.0
45°	2259.2	2219.6	2262.1	2372.9	2545.6	2817.9	3165.5	3211.5	3192.3	3034.3	1996.8
47.5°	2052.2	2076.7	2100.6	2248.7	2463.3	2787.6	3294.9	3451.8	3487.4	3314.2	2165.9
50°	1739.0	1733.8	1783.3	1970.0	2230.6	2656.9	3269.9	3521.2	3585.9	3398.2	2201.5
52.5°	1264.9	1303.4	1357.0	1542.5	1851.6	2318.7	2946.2	3342.2	3428.5	3294.9	2178.2
55°	736.5	694.0	814.7	971.6	1263.2	1748.9	2490.7	2962.5	3122.3	3107.1	2060.4
57.5°	295.1	285.8	327.2	440.9	659.0	1084.1	1811.3	2434.2	2690.2	2845.9	1810.8
60°	129.5	126.5	148.7	179.6	269.4	499.8	990.8	1513.9	1781.0	1988.6	1246.2
62.5°	93.3	92.1	103.2	114.3	142.3	217.5	416.4	610.0	760.5	918.5	558.1
65°	75.2	78.1	85.7	91.6	105.0	120.7	147.0	169.7	208.2	215.8	123.0
67.5°	61.2	63.6	70.6	77.0	79.3	65.3	67.6	59.5	59.5	53.1	42.6
70°	44.9	45.5	53.7	61.2	49.0	26.2	46.1	46.1	41.4	39.7	36.2
72.5°	33.2	33.8	40.2	37.9	19.2	16.3	33.8	37.3	33.8	32.1	29.2
75°	24.5	25.1	21.0	8.7	8.2	10.5	19.8	25.7	24.5	23.9	22.2
77.5°	4.7	3.5	2.9	4.1	5.8	8.7	12.8	15.7	16.3	17.5	16.3
80°	0.6	0.6	1.7	3.5	6.4	9.3	13.4	15.2	15.7	16.3	15.2
82.5°	0.0	0.6	1.7	3.5	6.4	8.7	11.7	13.4	14.6	15.2	14.6
85°	0.0	0.6	1.2	2.9	5.2	6.4	5.8	4.1	3.5	4.1	2.9
87.5°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4
2.5°	372.1	369.7	361.6	352.8	345.2	348.7	345.2	342.3	343.5	342.3	341.2
5°	392.5	382.0	364.5	356.9	350.5	349.9	348.2	347.6	348.2	348.2	342.9
7.5°	411.7	394.8	376.1	368.0	360.4	361.0	356.9	356.9	356.3	353.4	352.2
10°	440.9	418.1	394.2	379.6	370.3	368.6	364.5	360.4	360.4	360.4	354.6
12.5°	473.0	444.4	411.7	394.8	383.7	375.0	368.6	367.4	361.0	359.8	356.9
15°	500.9	464.8	423.4	400.1	386.1	374.4	364.5	358.1	355.2	353.4	351.1
17.5°	528.4	482.3	429.8	400.1	384.9	371.5	361.0	355.2	348.2	349.3	344.7
20°	565.1	500.9	431.5	392.5	373.8	361.0	347.0	344.1	340.0	336.5	337.7
22.5°	600.7	514.4	426.3	383.1	356.3	341.2	334.2	330.7	328.9	326.0	321.9
25°	632.7	528.9	418.1	366.2	337.7	326.6	320.2	319.6	315.5	315.5	307.9
27.5°	665.4	534.2	404.1	346.4	321.3	314.9	312.0	310.8	309.1	305.0	299.8
30°	702.7	535.9	383.7	326.0	306.7	299.8	303.8	306.7	299.2	291.6	293.9
32.5°	733.6	531.9	359.2	306.7	296.3	292.8	300.9	303.8	295.1	286.9	282.8
35°	771.0	521.9	335.3	291.6	285.8	292.8	299.8	299.8	282.3	272.3	270.0
37.5°	827.5	510.9	313.2	278.8	274.7	289.3	298.6	292.2	264.8	252.5	249.6
40°	888.2	503.9	291.6	265.9	268.8	283.4	288.7	268.8	240.9	233.3	230.9
42.5°	976.2	489.9	272.3	254.8	263.6	275.3	275.3	239.7	229.2	225.1	224.5
45°	1085.9	480.0	255.4	245.5	256.0	258.9	249.6	224.5	216.9	215.8	216.4
47.5°	1139.5	460.7	237.9	234.4	242.0	242.6	218.1	212.3	205.9	204.1	202.9
50°	1131.4	426.3	215.2	219.9	230.4	224.5	198.9	200.0	194.2	193.6	190.7
52.5°	1074.2	372.1	192.4	203.5	215.2	198.3	183.1	182.0	182.0	174.4	171.5
55°	952.3	299.8	165.0	179.0	193.0	166.8	162.7	161.5	158.6	151.6	149.9
57.5°	754.0	219.9	124.2	139.4	163.9	141.7	141.1	135.9	128.3	123.0	123.0
60°	448.5	126.5	78.1	85.1	108.5	114.9	127.7	125.4	112.6	104.4	102.1
62.5°	204.7	65.3	49.6	50.7	58.3	74.6	100.3	116.1	98.0	84.0	82.8
65°	68.8	48.4	40.8	39.1	40.2	44.9	60.1	82.2	78.1	64.7	62.4
67.5°	42.0	43.2	38.5	35.6	35.6	35.0	34.4	37.3	46.1	44.9	45.5
70°	36.2	39.7	35.6	32.1	30.9	29.2	24.5	20.4	17.5	20.4	21.6
72.5°	29.2	31.5	30.3	27.4	24.5	22.2	17.5	13.4	9.9	8.7	8.7
75°	21.6	23.3	24.5	21.0	18.7	15.7	12.8	8.7	5.2	3.5	3.5
77.5°	15.7	17.5	18.1	16.3	14.0	11.1	8.2	5.8	2.9	1.2	1.2
80°	13.4	15.7	17.5	16.3	14.6	10.5	7.6	4.1	2.3	0.6	0.6
82.5°	12.8	15.7	17.5	15.7	14.0	9.9	7.6	4.7	1.7	0.6	0.6
85°	2.9	4.1	5.2	6.4	7.6	7.6	5.8	3.5	1.7	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	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)