

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: P526681

Luminaire Tested: **GALN-SA1C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526681
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-SA1C-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 3459 lumens
Efficiency: N/A
Efficacy: 60.7 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

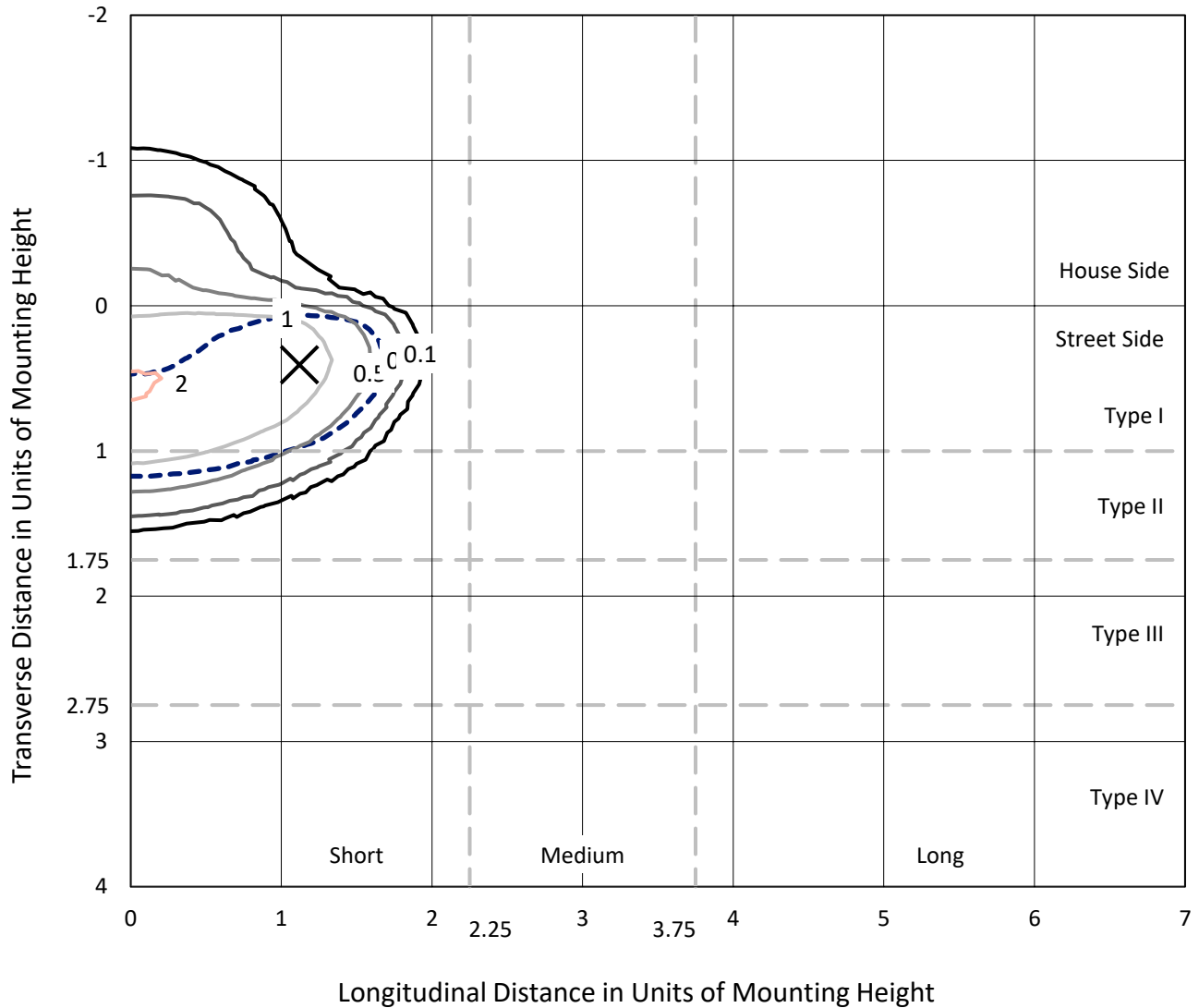
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

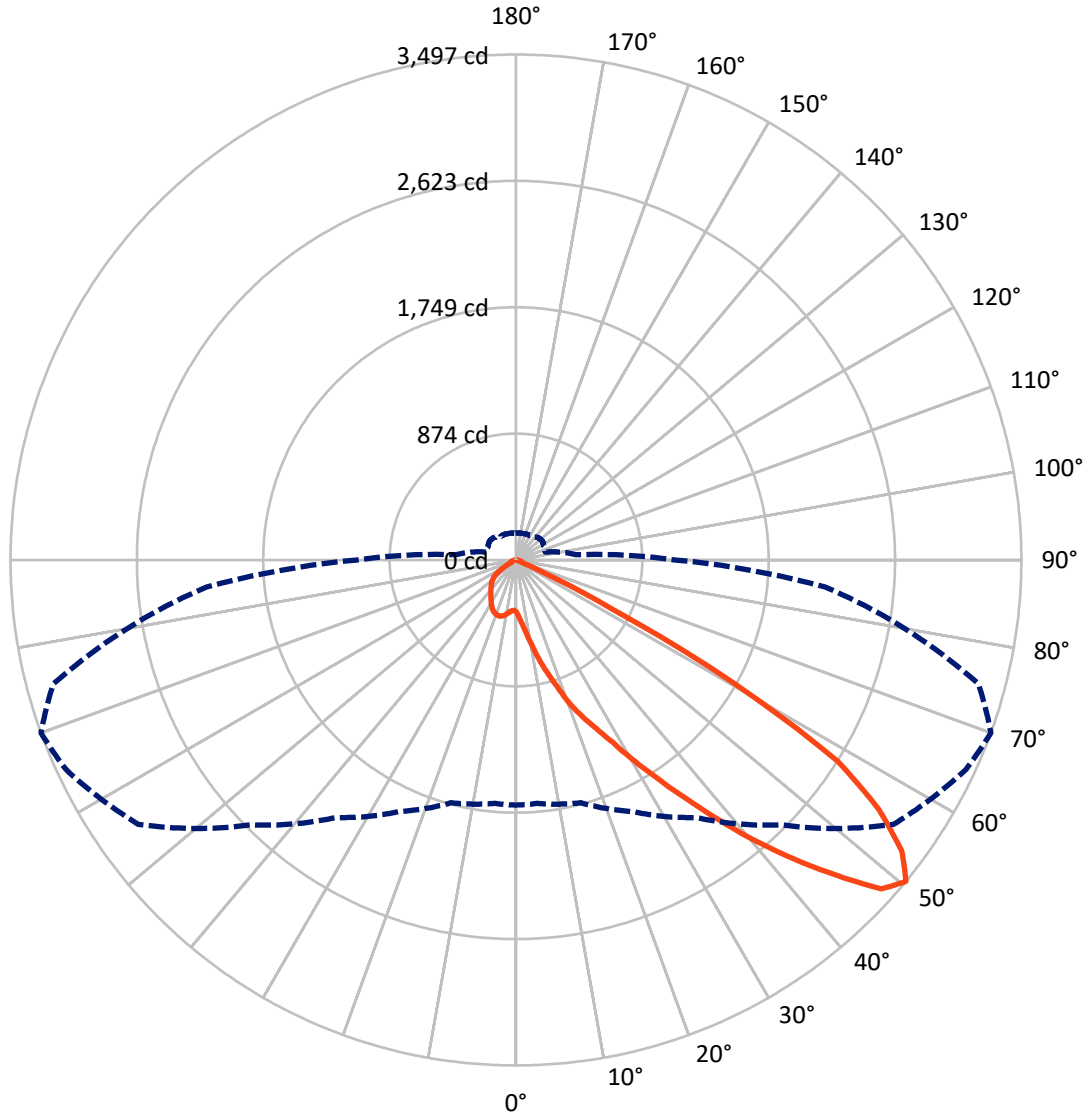
✕ Max cd
 - - - 1/2 Max cd



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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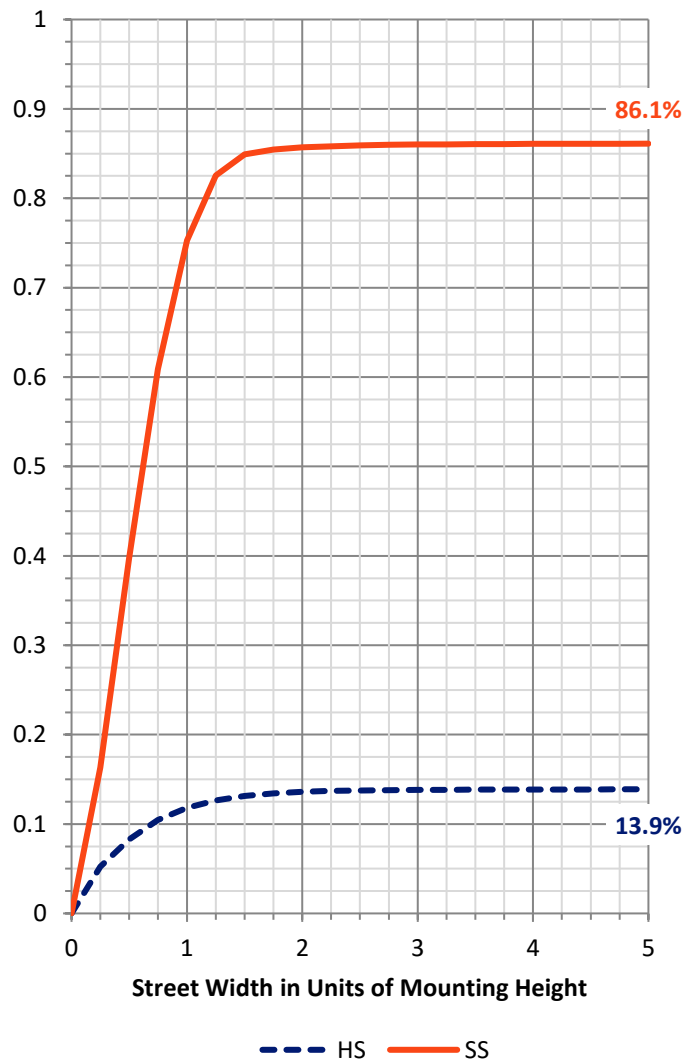
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.1	0.0	483.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2975.9	0.0	2975.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	3459.0	0.0	3459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.3
10°-20°	201.5	5.8
20°-30°	422.8	12.2
30°-40°	728.7	21.1
40°-50°	1065.0	30.8
50°-60°	829.5	24.0
60°-70°	140.5	4.1
70°-80°	19.3	0.6
80°-90°	5.0	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°	3459.0	100.0
0°-180°	3459.0	100.0

Coefficient of Utilization



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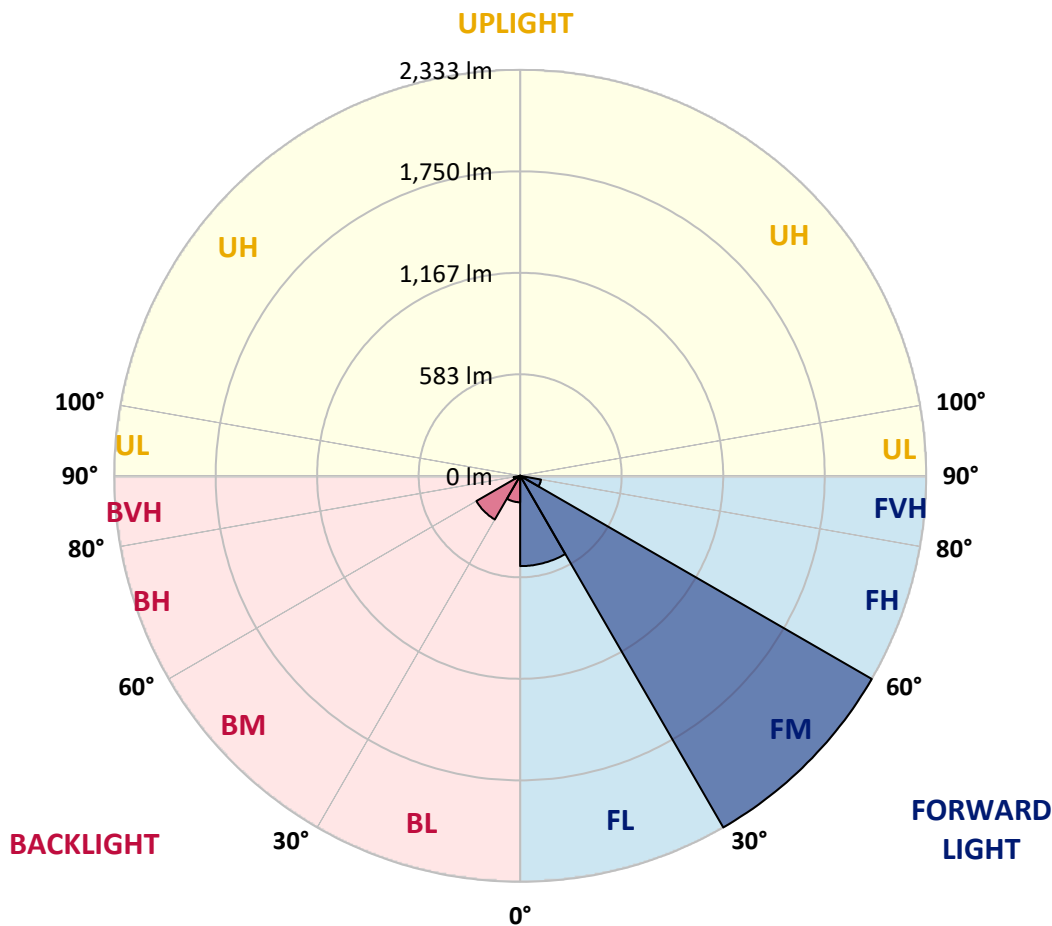
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.9	15.0			
FM (30°-60°)	2333.0	67.4			
FH (60°-80°)	121.7	3.5			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	152.0	4.4	B1/500		
BM (30°-60°)	290.2	8.4	B1/1000		
BH (60°-80°)	38.2	1.1	B0/110		G0/110
BVH (80°-90°)	2.7	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°	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3
2.5°	469.2	465.8	458.4	444.7	439.0	425.4	417.4	402.1	392.4	381.6	369.7
5°	660.8	643.2	632.4	617.0	572.1	544.3	498.2	458.9	440.7	420.8	393.5
7.5°	858.7	847.4	832.6	799.6	768.9	710.9	631.8	545.4	508.4	474.3	420.3
10°	1022.5	990.7	989.0	964.5	931.0	861.6	766.6	659.1	593.2	543.1	458.4
12.5°	1136.8	1107.8	1120.9	1118.1	1086.8	1023.1	913.3	771.2	702.4	624.4	497.6
15°	1240.9	1229.0	1225.0	1221.6	1209.1	1161.9	1063.5	907.7	808.1	714.3	542.0
17.5°	1342.7	1312.0	1326.8	1329.6	1328.5	1285.8	1193.7	1037.3	920.2	809.3	588.6
20°	1433.1	1436.0	1416.1	1412.1	1408.7	1407.0	1317.1	1165.8	1057.8	908.8	649.5
22.5°	1549.2	1529.2	1546.9	1535.5	1513.3	1499.7	1430.9	1279.6	1177.2	1028.8	711.5
25°	1686.2	1702.1	1660.6	1656.1	1631.6	1584.4	1522.4	1407.0	1292.1	1140.3	778.6
27.5°	1855.1	1827.2	1816.4	1791.4	1747.1	1727.2	1654.4	1538.3	1430.9	1257.4	843.4
30°	2000.1	1992.7	1938.7	1909.1	1870.5	1869.9	1768.1	1716.4	1611.7	1441.1	932.7
32.5°	2118.4	2086.0	2066.1	2045.6	2014.4	2022.9	1937.0	1909.7	1804.5	1611.7	1037.9
35°	2197.5	2174.2	2162.2	2130.9	2121.8	2159.9	2124.1	2112.7	2026.3	1851.7	1161.3
37.5°	2222.5	2229.9	2227.6	2188.4	2207.7	2310.6	2356.7	2327.1	2281.6	2104.8	1294.9
40°	2244.7	2249.8	2238.4	2284.5	2339.7	2456.8	2623.4	2574.5	2557.5	2361.3	1480.9
42.5°	2257.2	2253.2	2253.2	2332.8	2416.4	2651.9	2881.1	2848.6	2835.6	2634.2	1695.9
45°	2203.2	2164.5	2206.0	2314.1	2482.4	2748.0	3086.9	3131.9	3113.1	2959.0	1947.2
47.5°	2001.3	2025.2	2048.5	2192.9	2402.2	2718.4	3213.2	3366.2	3400.9	3232.0	2112.2
50°	1695.9	1690.8	1739.1	1921.1	2175.3	2591.0	3188.7	3433.8	3497.0	3313.8	2146.9
52.5°	1233.5	1271.1	1323.4	1504.2	1805.6	2261.2	2873.1	3259.2	3343.4	3213.2	2124.1
55°	718.3	676.8	794.5	947.5	1231.8	1705.5	2428.9	2889.0	3044.8	3030.1	2009.2
57.5°	287.8	278.7	319.0	429.9	642.6	1057.2	1766.4	2373.8	2623.4	2775.3	1765.8
60°	126.3	123.4	145.0	175.2	262.7	487.4	966.2	1476.4	1736.8	1939.3	1215.3
62.5°	91.0	89.9	100.7	111.5	138.8	212.1	406.1	594.9	741.6	895.7	544.3
65°	73.4	76.2	83.6	89.3	102.4	117.7	143.3	165.5	203.0	210.4	120.0
67.5°	59.7	62.0	68.8	75.1	77.3	63.7	66.0	58.0	58.0	51.8	41.5
70°	43.8	44.4	52.3	59.7	47.8	25.6	44.9	44.9	40.4	38.7	35.3
72.5°	32.4	33.0	39.2	37.0	18.8	15.9	33.0	36.4	33.0	31.3	28.4
75°	23.9	24.5	20.5	8.5	8.0	10.2	19.3	25.0	23.9	23.3	21.6
77.5°	4.5	3.4	2.8	4.0	5.7	8.5	12.5	15.4	15.9	17.1	15.9
80°	0.6	0.6	1.7	3.4	6.3	9.1	13.1	14.8	15.4	15.9	14.8
82.5°	0.0	0.6	1.7	3.4	6.3	8.5	11.4	13.1	14.2	14.8	14.2
85°	0.0	0.6	1.1	2.8	5.1	6.3	5.7	4.0	3.4	4.0	2.8
87.5°	0.0	0.0	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3
2.5°	362.8	360.6	352.6	344.1	336.7	340.1	336.7	333.8	335.0	333.8	332.7
5°	382.7	372.5	355.4	348.0	341.8	341.2	339.5	338.9	339.5	339.5	334.4
7.5°	401.5	385.0	366.8	358.9	351.5	352.0	348.0	348.0	347.5	344.6	343.5
10°	429.9	407.8	384.4	370.2	361.1	359.4	355.4	351.5	351.5	351.5	345.8
12.5°	461.2	433.4	401.5	385.0	374.2	365.7	359.4	358.3	352.0	350.9	348.0
15°	488.5	453.3	412.9	390.1	376.5	365.1	355.4	349.2	346.3	344.6	342.4
17.5°	515.2	470.3	419.1	390.1	375.3	362.3	352.0	346.3	339.5	340.7	336.1
20°	551.1	488.5	420.8	382.7	364.5	352.0	338.4	335.5	331.6	328.1	329.3
22.5°	585.8	501.6	415.7	373.6	347.5	332.7	325.9	322.5	320.7	317.9	313.9
25°	617.0	515.8	407.8	357.1	329.3	318.5	312.2	311.7	307.7	307.7	300.3
27.5°	648.9	520.9	394.1	337.8	313.4	307.1	304.3	303.1	301.4	297.4	292.3
30°	685.3	522.6	374.2	317.9	299.1	292.3	296.3	299.1	291.7	284.4	286.6
32.5°	715.4	518.7	350.3	299.1	288.9	285.5	293.5	296.3	287.8	279.8	275.8
35°	751.8	509.0	327.0	284.4	278.7	285.5	292.3	292.3	275.3	265.6	263.3
37.5°	807.0	498.2	305.4	271.8	267.9	282.1	291.2	284.9	258.2	246.2	243.4
40°	866.1	491.4	284.4	259.3	262.2	276.4	281.5	262.2	234.9	227.5	225.2
42.5°	952.0	477.7	265.6	248.5	257.1	268.4	268.4	233.7	223.5	219.5	219.0
45°	1058.9	468.0	249.1	239.4	249.7	252.5	243.4	219.0	211.6	210.4	211.0
47.5°	1111.2	449.3	232.0	228.6	236.0	236.6	212.7	207.0	200.8	199.0	197.9
50°	1103.3	415.7	209.9	214.4	224.6	219.0	193.9	195.1	189.4	188.8	186.0
52.5°	1047.6	362.8	187.7	198.5	209.9	193.4	178.6	177.4	177.4	170.0	167.2
55°	928.7	292.3	160.9	174.6	188.2	162.6	158.7	157.5	154.7	147.9	146.2
57.5°	735.3	214.4	121.1	135.9	159.8	138.2	137.6	132.5	125.1	120.0	120.0
60°	437.3	123.4	76.2	83.0	105.8	112.0	124.5	122.3	109.8	101.8	99.5
62.5°	199.6	63.7	48.3	49.5	56.9	72.8	97.8	113.2	95.5	81.9	80.8
65°	67.1	47.2	39.8	38.1	39.2	43.8	58.6	80.2	76.2	63.1	60.9
67.5°	40.9	42.1	37.5	34.7	34.7	34.1	33.6	36.4	44.9	43.8	44.4
70°	35.3	38.7	34.7	31.3	30.1	28.4	23.9	19.9	17.1	19.9	21.0
72.5°	28.4	30.7	29.6	26.7	23.9	21.6	17.1	13.1	9.7	8.5	8.5
75°	21.0	22.7	23.9	20.5	18.2	15.4	12.5	8.5	5.1	3.4	3.4
77.5°	15.4	17.1	17.6	15.9	13.6	10.8	8.0	5.7	2.8	1.1	1.1
80°	13.1	15.4	17.1	15.9	14.2	10.2	7.4	4.0	2.3	0.6	0.6
82.5°	12.5	15.4	17.1	15.4	13.6	9.7	7.4	4.5	1.7	0.6	0.6
85°	2.8	4.0	5.1	6.3	7.4	7.4	5.7	3.4	1.7	0.6	0.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)