

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: P526291

Luminaire Tested: **GALN-SA1B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526291
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-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 3184 lumens
Efficiency: N/A
Efficacy: 72.4 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

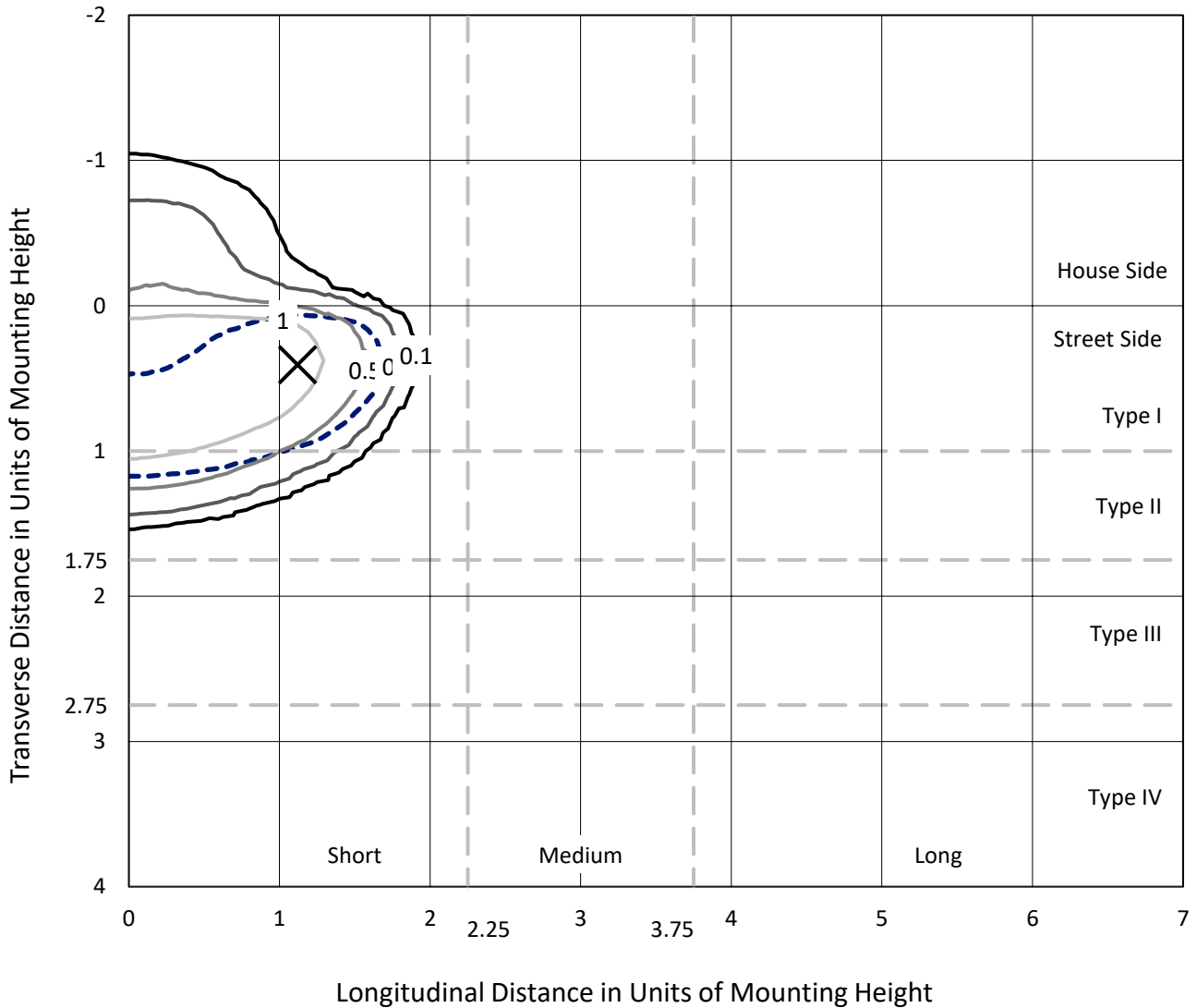
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

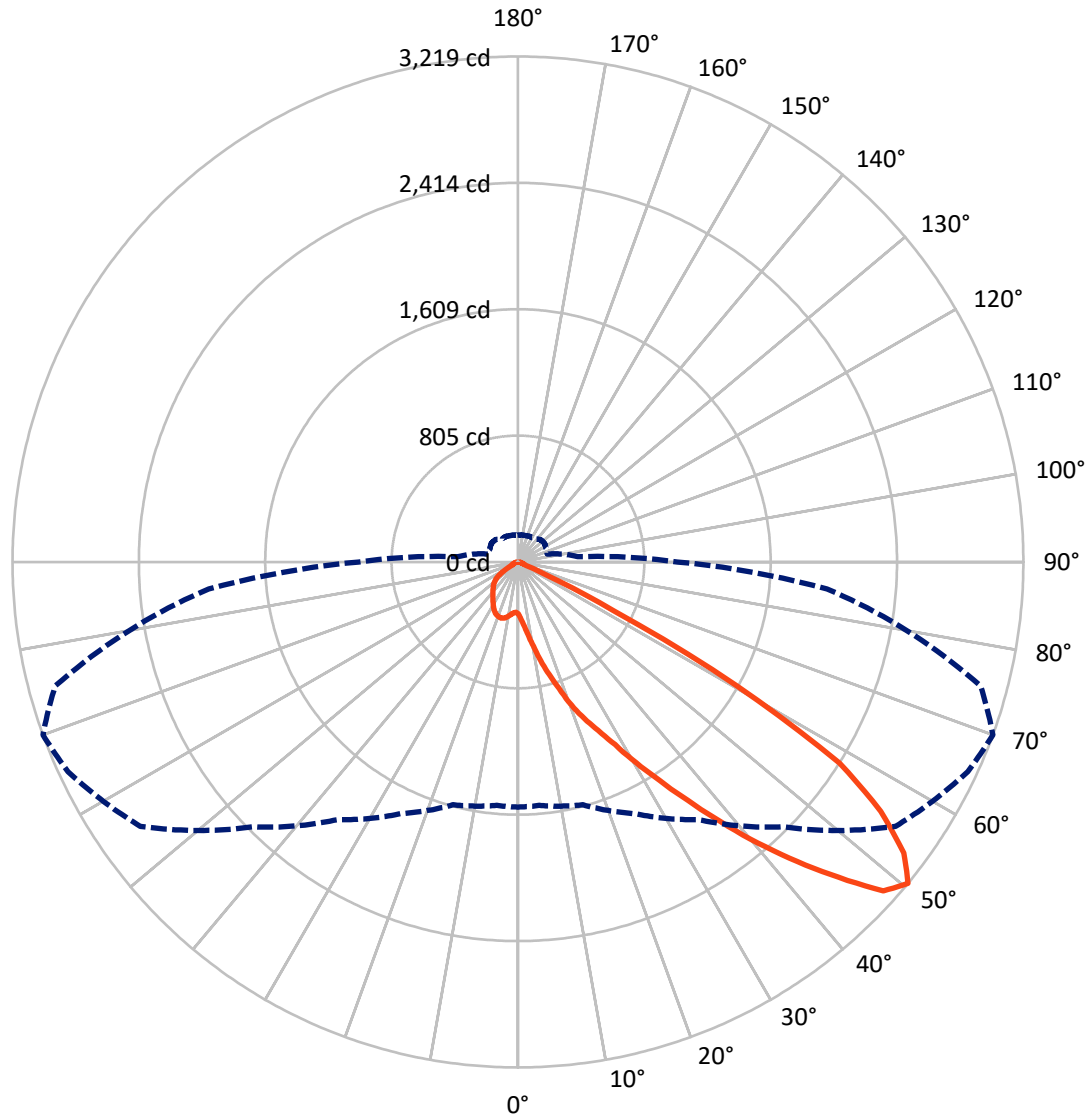
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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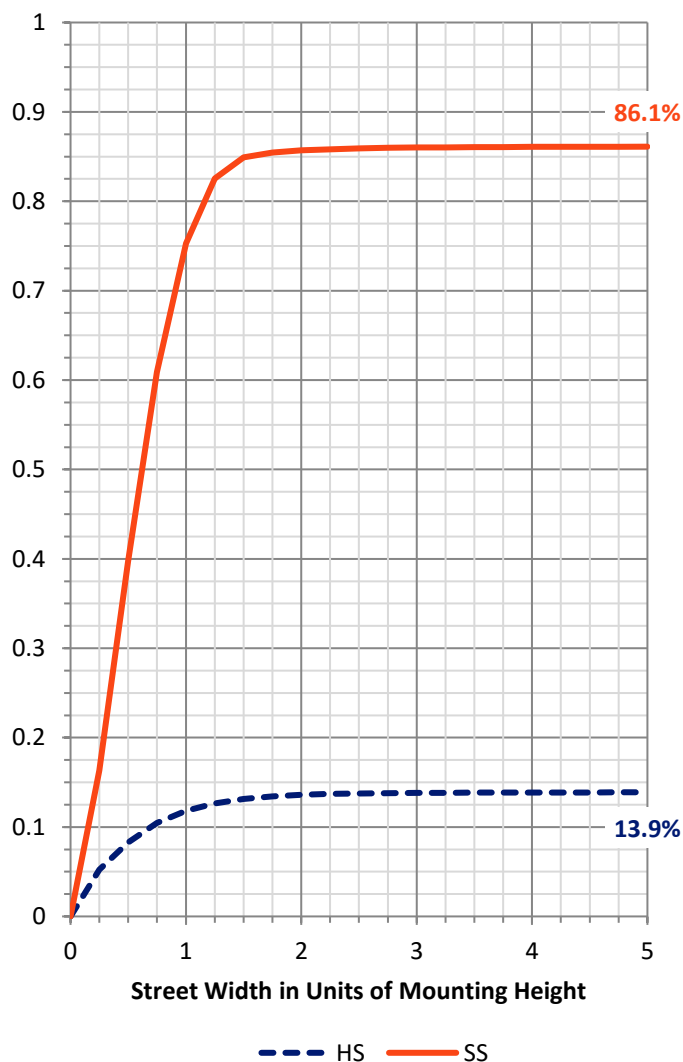
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.7	0.0	444.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2739.3	0.0	2739.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	3184.0	0.0	3184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.3
10°-20°	185.5	5.8
20°-30°	389.2	12.2
30°-40°	670.8	21.1
40°-50°	980.4	30.8
50°-60°	763.5	24.0
60°-70°	129.4	4.1
70°-80°	17.8	0.6
80°-90°	4.6	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°	3184.0	100.0
0°-180°	3184.0	100.0

Coefficient of Utilization



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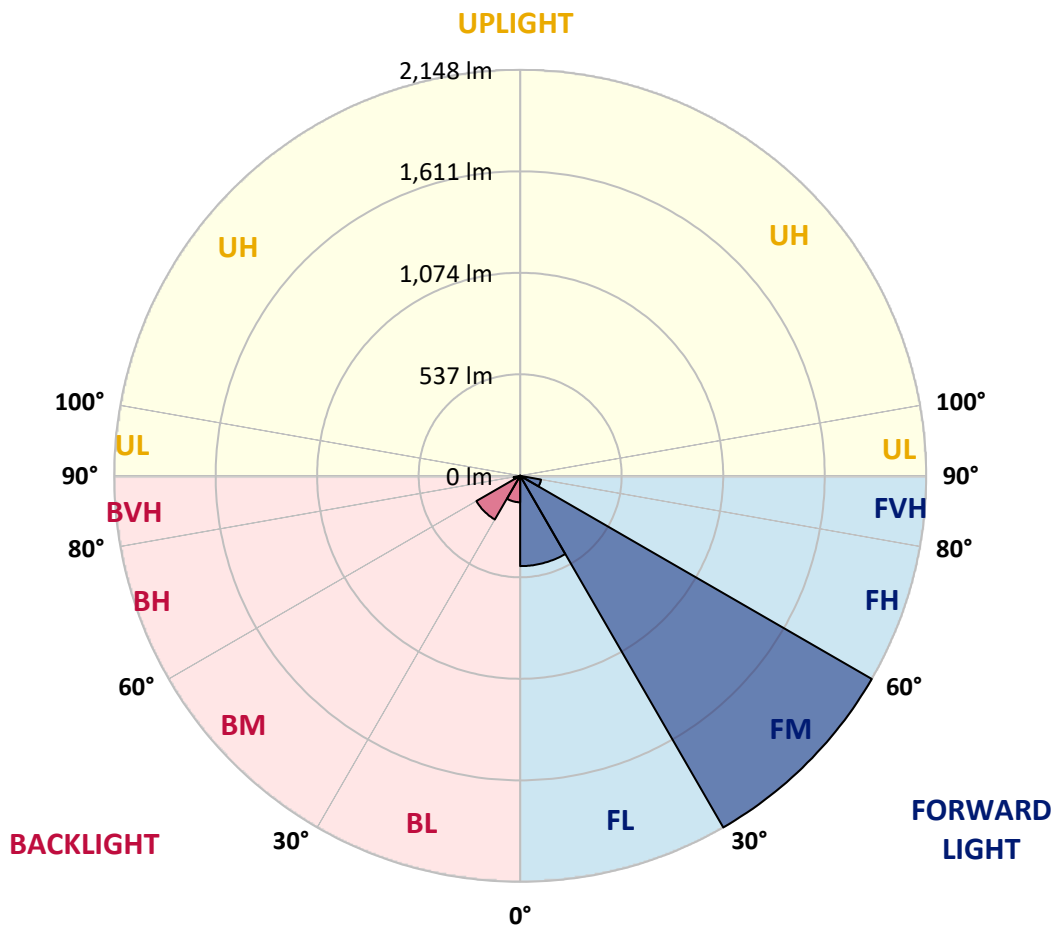
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.6	15.0			
FM (30°-60°)	2147.6	67.4			
FH (60°-80°)	112.0	3.5			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	139.9	4.4	B1/500		
BM (30°-60°)	267.1	8.4	B1/1000		
BH (60°-80°)	35.1	1.1	B0/110		G0/110
BVH (80°-90°)	2.5	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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	431.9	428.7	421.9	409.4	404.1	391.6	384.2	370.1	361.2	351.3	340.3
5°	608.3	592.1	582.1	568.0	526.6	501.0	458.6	422.5	405.7	387.4	362.3
7.5°	790.5	780.0	766.4	736.0	707.8	654.4	581.6	502.0	468.0	436.6	386.9
10°	941.2	911.9	910.4	887.8	857.0	793.1	705.7	606.7	546.0	499.9	421.9
12.5°	1046.5	1019.8	1031.8	1029.2	1000.4	941.8	840.7	709.9	646.5	574.8	458.1
15°	1142.3	1131.3	1127.6	1124.5	1112.9	1069.5	978.9	835.5	743.9	657.5	498.9
17.5°	1236.0	1207.7	1221.3	1223.9	1222.9	1183.6	1098.8	954.8	847.0	744.9	541.8
20°	1319.2	1321.8	1303.5	1299.8	1296.7	1295.1	1212.4	1073.2	973.7	836.5	597.8
22.5°	1426.0	1407.7	1423.9	1413.4	1393.0	1380.4	1317.1	1177.9	1083.6	947.0	654.9
25°	1552.2	1566.8	1528.6	1524.4	1501.9	1458.4	1401.4	1295.1	1189.4	1049.6	716.7
27.5°	1707.6	1682.0	1672.0	1649.0	1608.2	1589.8	1522.8	1416.0	1317.1	1157.4	776.3
30°	1841.1	1834.3	1784.6	1757.4	1721.8	1721.2	1627.5	1579.9	1483.6	1326.5	858.5
32.5°	1950.0	1920.2	1901.8	1883.0	1854.2	1862.1	1783.0	1757.9	1661.0	1483.6	955.4
35°	2022.8	2001.3	1990.3	1961.5	1953.1	1988.2	1955.2	1944.8	1865.2	1704.5	1069.0
37.5°	2045.8	2052.6	2050.5	2014.4	2032.2	2126.9	2169.3	2142.1	2100.2	1937.4	1192.0
40°	2066.2	2070.9	2060.5	2102.9	2153.6	2261.5	2414.9	2369.8	2354.1	2173.5	1363.2
42.5°	2077.7	2074.1	2074.1	2147.4	2224.3	2441.0	2652.0	2622.2	2610.1	2424.8	1561.1
45°	2028.0	1992.4	2030.6	2130.1	2285.0	2529.5	2841.5	2882.9	2865.6	2723.7	1792.4
47.5°	1842.2	1864.2	1885.6	2018.6	2211.2	2502.3	2957.7	3098.5	3130.5	2975.0	1944.2
50°	1561.1	1556.3	1600.8	1768.4	2002.4	2385.0	2935.2	3160.8	3218.9	3050.4	1976.2
52.5°	1135.5	1170.0	1218.2	1384.6	1662.1	2081.4	2644.7	3000.1	3077.6	2957.7	1955.2
55°	661.2	623.0	731.3	872.1	1133.9	1570.0	2235.8	2659.3	2802.8	2789.2	1849.5
57.5°	264.9	256.5	293.7	395.8	591.5	973.2	1626.0	2185.1	2414.9	2554.6	1625.4
60°	116.2	113.6	133.5	161.2	241.9	448.6	889.4	1359.0	1598.7	1785.1	1118.7
62.5°	83.8	82.7	92.7	102.6	127.7	195.3	373.8	547.6	682.6	824.5	501.0
65°	67.5	70.1	77.0	82.2	94.2	108.4	131.9	152.3	186.9	193.7	110.5
67.5°	55.0	57.1	63.3	69.1	71.2	58.6	60.7	53.4	53.4	47.6	38.2
70°	40.3	40.8	48.2	55.0	44.0	23.6	41.4	41.4	37.2	35.6	32.5
72.5°	29.8	30.4	36.1	34.0	17.3	14.7	30.4	33.5	30.4	28.8	26.2
75°	22.0	22.5	18.8	7.9	7.3	9.4	17.8	23.0	22.0	21.5	19.9
77.5°	4.2	3.1	2.6	3.7	5.2	7.9	11.5	14.1	14.7	15.7	14.7
80°	0.5	0.5	1.6	3.1	5.8	8.4	12.0	13.6	14.1	14.7	13.6
82.5°	0.0	0.5	1.6	3.1	5.8	7.9	10.5	12.0	13.1	13.6	13.1
85°	0.0	0.5	1.0	2.6	4.7	5.8	5.2	3.7	3.1	3.7	2.6
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	334.0	331.9	324.6	316.7	309.9	313.0	309.9	307.3	308.3	307.3	306.2
5°	352.3	342.9	327.2	320.4	314.6	314.1	312.5	312.0	312.5	312.5	307.8
7.5°	369.6	354.4	337.7	330.3	323.5	324.0	320.4	320.4	319.9	317.2	316.2
10°	395.8	375.3	353.9	340.8	332.4	330.8	327.2	323.5	323.5	323.5	318.3
12.5°	424.6	398.9	369.6	354.4	344.5	336.6	330.8	329.8	324.0	323.0	320.4
15°	449.7	417.2	380.1	359.1	346.6	336.1	327.2	321.4	318.8	317.2	315.1
17.5°	474.3	432.9	385.8	359.1	345.5	333.5	324.0	318.8	312.5	313.6	309.4
20°	507.3	449.7	387.4	352.3	335.6	324.0	311.5	308.9	305.2	302.1	303.1
22.5°	539.2	461.7	382.7	343.9	319.9	306.2	300.0	296.8	295.2	292.6	289.0
25°	568.0	474.8	375.3	328.8	303.1	293.2	287.4	286.9	283.2	283.2	276.4
27.5°	597.3	479.5	362.8	311.0	288.4	282.7	280.1	279.0	277.5	273.8	269.1
30°	630.8	481.1	344.5	292.6	275.4	269.1	272.7	275.4	268.6	261.7	263.8
32.5°	658.6	477.4	322.5	275.4	265.9	262.8	270.1	272.7	264.9	257.6	253.9
35°	692.1	468.5	301.0	261.7	256.5	262.8	269.1	269.1	253.4	244.5	242.4
37.5°	742.8	458.6	281.1	250.2	246.6	259.7	268.0	262.3	237.7	226.7	224.1
40°	797.3	452.3	261.7	238.7	241.3	254.4	259.1	241.3	216.2	209.4	207.3
42.5°	876.3	439.7	244.5	228.8	236.6	247.1	247.1	215.2	205.7	202.1	201.5
45°	974.7	430.8	229.3	220.4	229.8	232.4	224.1	201.5	194.7	193.7	194.2
47.5°	1022.9	413.6	213.6	210.4	217.2	217.8	195.8	190.6	184.8	183.2	182.2
50°	1015.6	382.7	193.2	197.4	206.8	201.5	178.5	179.6	174.3	173.8	171.2
52.5°	964.3	334.0	172.8	182.7	193.2	178.0	164.4	163.3	163.3	156.5	153.9
55°	854.9	269.1	148.1	160.7	173.3	149.7	146.1	145.0	142.4	136.1	134.5
57.5°	676.9	197.4	111.5	125.1	147.1	127.2	126.7	122.0	115.2	110.5	110.5
60°	402.6	113.6	70.1	76.4	97.4	103.1	114.6	112.6	101.0	93.7	91.6
62.5°	183.7	58.6	44.5	45.5	52.3	67.0	90.0	104.2	87.9	75.4	74.3
65°	61.8	43.4	36.6	35.1	36.1	40.3	53.9	73.8	70.1	58.1	56.0
67.5°	37.7	38.7	34.6	31.9	31.9	31.4	30.9	33.5	41.4	40.3	40.8
70°	32.5	35.6	31.9	28.8	27.7	26.2	22.0	18.3	15.7	18.3	19.4
72.5°	26.2	28.3	27.2	24.6	22.0	19.9	15.7	12.0	8.9	7.9	7.9
75°	19.4	20.9	22.0	18.8	16.8	14.1	11.5	7.9	4.7	3.1	3.1
77.5°	14.1	15.7	16.2	14.7	12.6	9.9	7.3	5.2	2.6	1.0	1.0
80°	12.0	14.1	15.7	14.7	13.1	9.4	6.8	3.7	2.1	0.5	0.5
82.5°	11.5	14.1	15.7	14.1	12.6	8.9	6.8	4.2	1.6	0.5	0.5
85°	2.6	3.7	4.7	5.8	6.8	6.8	5.2	3.1	1.6	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	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)