

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: P527175

Luminaire Tested: **GALN-SA2A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527175
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-SA2A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

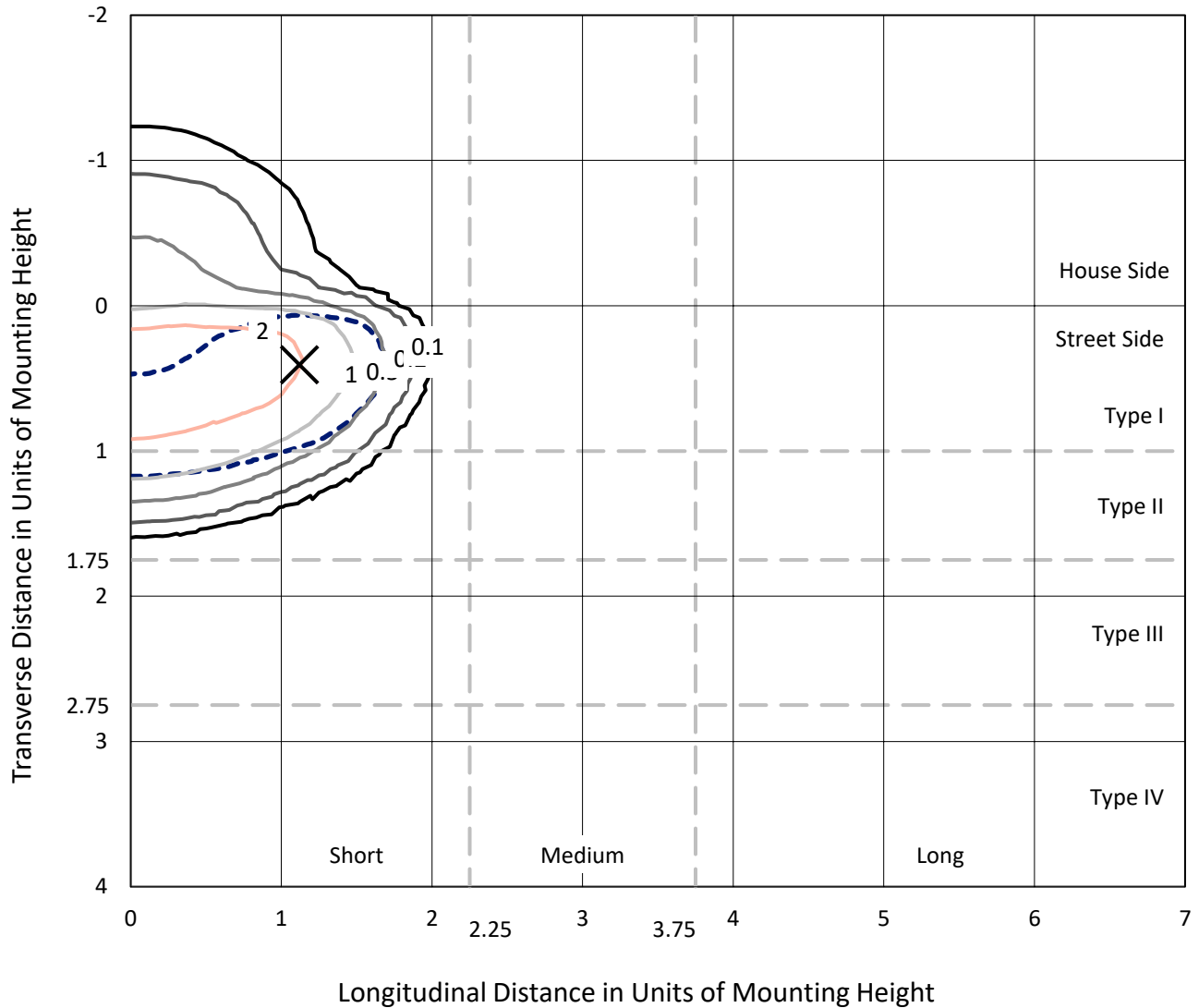
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

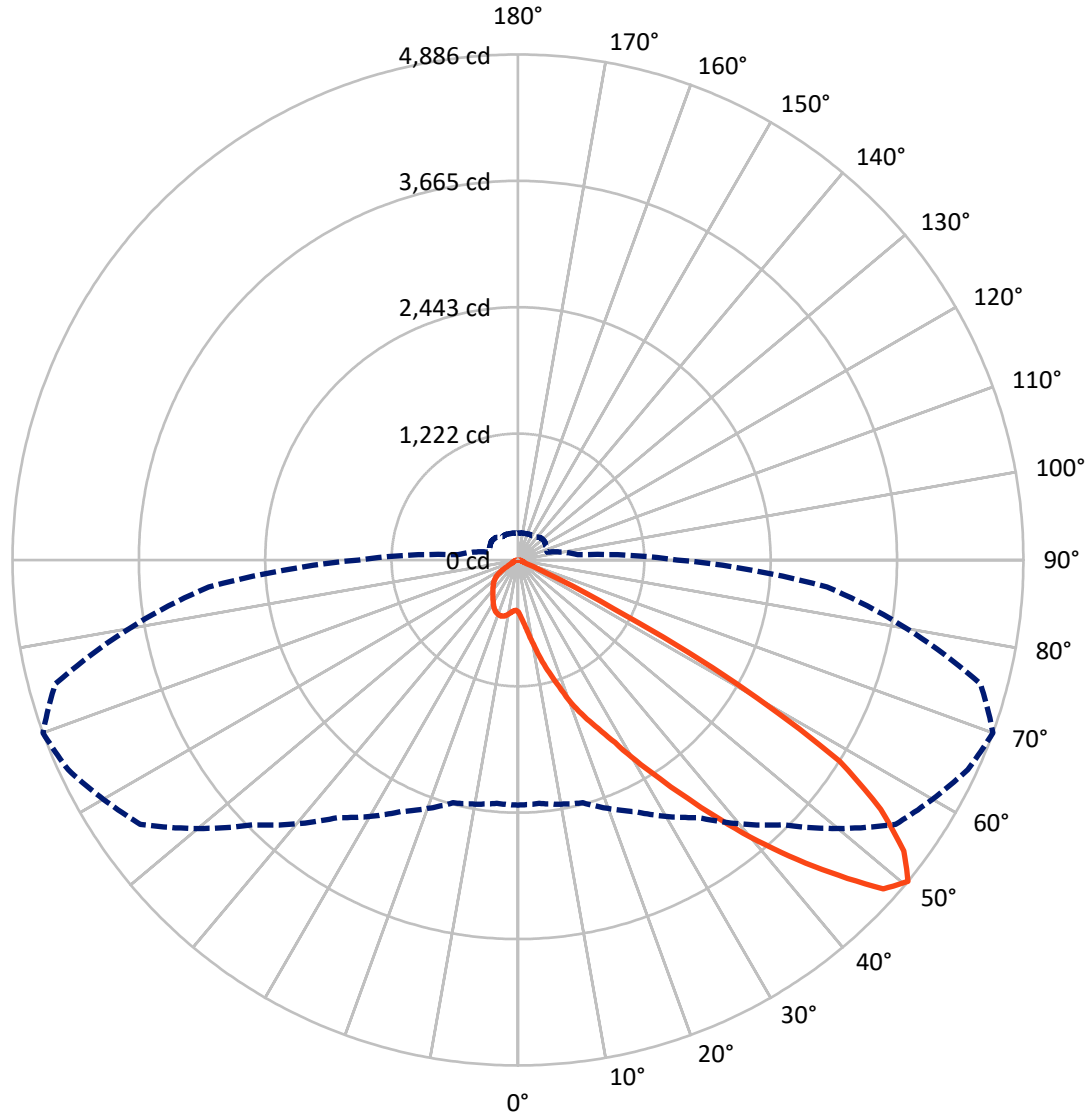
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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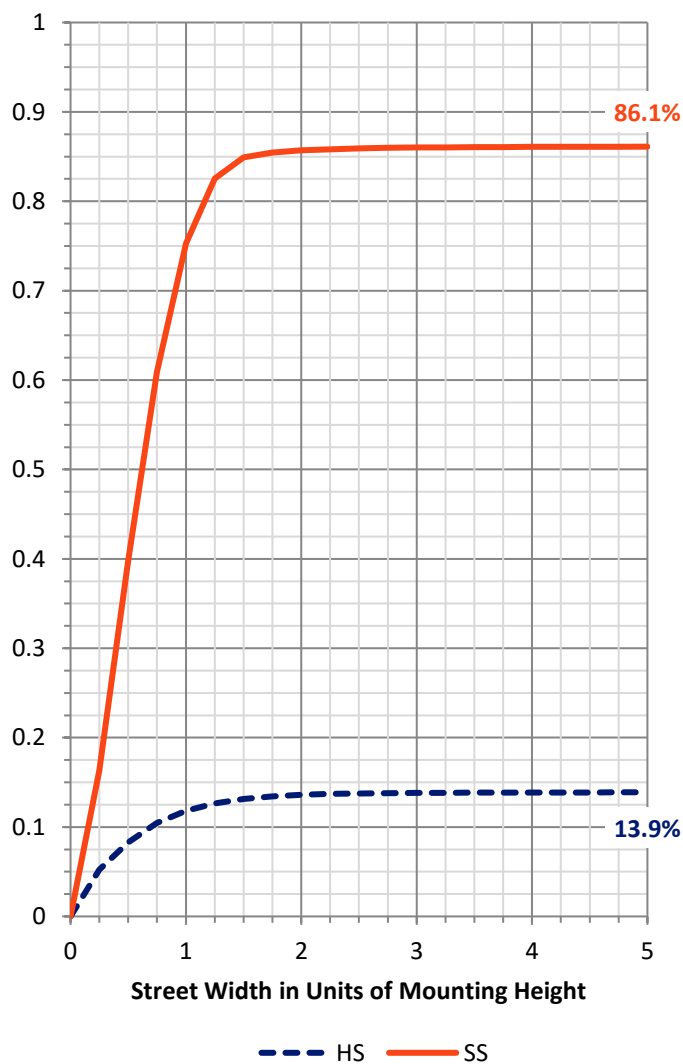
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	675.0	0.0	675.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4158.0	0.0	4158.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	4833.0	0.0	4833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.3
10°-20°	281.6	5.8
20°-30°	590.7	12.2
30°-40°	1018.2	21.1
40°-50°	1488.1	30.8
50°-60°	1159.0	24.0
60°-70°	196.4	4.1
70°-80°	27.0	0.6
80°-90°	7.0	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°	4833.0	100.0
0°-180°	4833.0	100.0

Coefficient of Utilization



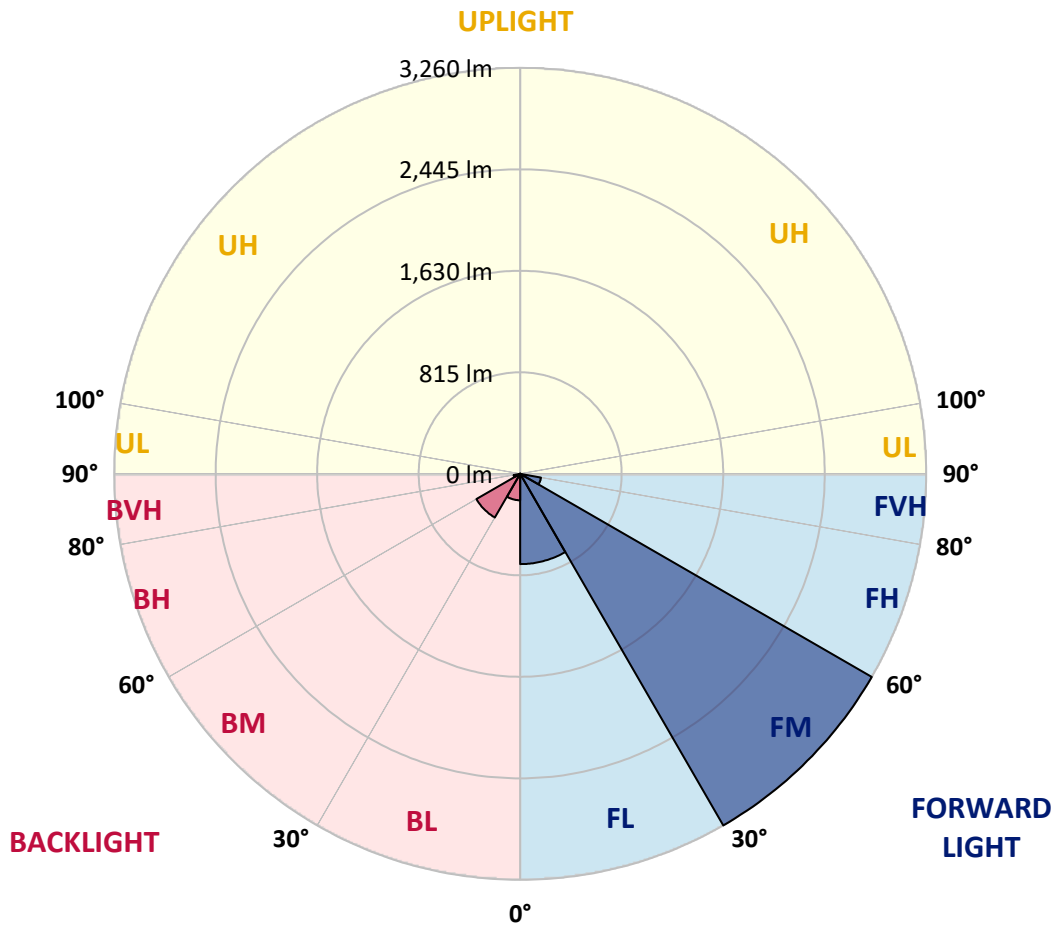
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.0	15.0			
FM (30°-60°)	3259.8	67.4			
FH (60°-80°)	170.0	3.5			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	212.4	4.4	B1/500		
BM (30°-60°)	405.5	8.4	B1/1000		
BH (60°-80°)	53.3	1.1	B0/110		G0/110
BVH (80°-90°)	3.8	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°	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6
2.5°	655.6	650.8	640.5	621.4	613.4	594.4	583.2	561.8	548.3	533.2	516.5
5°	923.3	898.7	883.6	862.2	799.4	760.4	696.1	641.2	615.8	588.0	549.9
7.5°	1199.9	1184.0	1163.3	1117.2	1074.3	993.3	882.8	762.0	710.4	662.7	587.2
10°	1428.7	1384.2	1381.8	1347.7	1300.8	1203.8	1071.1	921.0	828.8	758.9	640.5
12.5°	1588.4	1547.9	1566.2	1562.2	1518.5	1429.5	1276.1	1077.5	981.3	872.5	695.3
15°	1733.8	1717.1	1711.6	1706.8	1689.3	1623.4	1485.9	1268.2	1129.1	998.0	757.3
17.5°	1876.1	1833.2	1853.8	1857.8	1856.2	1796.6	1667.9	1449.4	1285.7	1130.7	822.4
20°	2002.4	2006.4	1978.6	1973.0	1968.2	1965.9	1840.3	1628.9	1478.0	1269.8	907.4
22.5°	2164.5	2136.7	2161.3	2145.4	2114.5	2095.4	1999.2	1787.9	1644.8	1437.4	994.1
25°	2356.0	2378.3	2320.3	2313.9	2279.7	2213.8	2127.2	1965.9	1805.4	1593.2	1087.8
27.5°	2592.0	2553.1	2538.0	2503.0	2441.0	2413.2	2311.5	2149.4	1999.2	1756.9	1178.4
30°	2794.6	2784.3	2708.8	2667.5	2613.5	2612.7	2470.4	2398.1	2251.9	2013.5	1303.2
32.5°	2959.9	2914.6	2886.8	2858.2	2814.5	2826.4	2706.4	2668.3	2521.3	2251.9	1450.2
35°	3070.4	3037.8	3021.1	2977.4	2964.7	3017.9	2967.9	2952.0	2831.2	2587.2	1622.6
37.5°	3105.3	3115.7	3112.5	3057.7	3084.7	3228.5	3292.9	3251.5	3188.0	2940.8	1809.3
40°	3136.3	3143.5	3127.6	3191.9	3269.0	3432.7	3665.5	3597.2	3573.4	3299.2	2069.2
42.5°	3153.8	3148.2	3148.2	3259.5	3376.3	3705.3	4025.5	3980.2	3961.9	3680.6	2369.5
45°	3078.3	3024.3	3082.3	3233.3	3468.5	3839.6	4313.1	4375.9	4349.7	4134.4	2720.7
47.5°	2796.2	2829.6	2862.2	3064.0	3356.4	3798.2	4489.5	4703.3	4751.8	4515.8	2951.2
50°	2369.5	2362.4	2429.9	2684.2	3039.4	3620.2	4455.4	4797.8	4886.1	4630.2	2999.6
52.5°	1723.5	1776.0	1849.1	2101.7	2522.9	3159.4	4014.4	4553.9	4671.5	4489.5	2967.9
55°	1003.6	945.6	1110.1	1323.8	1721.1	2383.0	3393.8	4036.6	4254.3	4233.7	2807.4
57.5°	402.1	389.4	445.8	600.7	897.9	1477.2	2468.1	3316.7	3665.5	3877.7	2467.3
60°	176.4	172.4	202.6	244.7	367.1	681.0	1350.0	2062.8	2426.7	2709.6	1698.1
62.5°	127.1	125.5	140.6	155.7	193.9	296.4	567.4	831.2	1036.2	1251.5	760.4
65°	102.5	106.5	116.8	124.8	143.0	164.5	200.2	231.2	283.7	294.0	167.7
67.5°	83.4	86.6	96.1	104.9	108.1	89.0	92.2	81.1	81.1	72.3	58.0
70°	61.2	62.0	73.1	83.4	66.7	35.8	62.8	62.8	56.4	54.0	49.3
72.5°	45.3	46.1	54.8	51.6	26.2	22.2	46.1	50.9	46.1	43.7	39.7
75°	33.4	34.2	28.6	11.9	11.1	14.3	27.0	35.0	33.4	32.6	30.2
77.5°	6.4	4.8	4.0	5.6	7.9	11.9	17.5	21.5	22.2	23.8	22.2
80°	0.8	0.8	2.4	4.8	8.7	12.7	18.3	20.7	21.5	22.2	20.7
82.5°	0.0	0.8	2.4	4.8	8.7	11.9	15.9	18.3	19.9	20.7	19.9
85°	0.0	0.8	1.6	4.0	7.2	8.7	7.9	5.6	4.8	5.6	4.0
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6
2.5°	507.0	503.8	492.7	480.7	470.4	475.2	470.4	466.4	468.0	466.4	464.8
5°	534.8	520.5	496.6	486.3	477.6	476.8	474.4	473.6	474.4	474.4	467.2
7.5°	561.0	538.0	512.5	501.4	491.1	491.9	486.3	486.3	485.5	481.5	479.9
10°	600.7	569.7	537.2	517.3	504.6	502.2	496.6	491.1	491.1	491.1	483.1
12.5°	644.4	605.5	561.0	538.0	522.9	510.9	502.2	500.6	491.9	490.3	486.3
15°	682.6	633.3	576.9	545.1	526.0	510.1	496.6	487.9	483.9	481.5	478.4
17.5°	719.9	657.1	585.6	545.1	524.4	506.2	491.9	483.9	474.4	476.0	469.6
20°	770.0	682.6	588.0	534.8	509.3	491.9	472.8	468.8	463.3	458.5	460.1
22.5°	818.4	700.8	580.9	522.1	485.5	464.8	455.3	450.5	448.2	444.2	438.6
25°	862.2	720.7	569.7	499.0	460.1	445.0	436.2	435.4	429.9	429.9	419.6
27.5°	906.6	727.9	550.7	472.0	437.8	429.1	425.1	423.5	421.1	415.6	408.4
30°	957.5	730.2	522.9	444.2	418.0	408.4	414.0	418.0	407.6	397.3	400.5
32.5°	999.6	724.7	489.5	418.0	403.7	398.9	410.0	414.0	402.1	390.9	385.4
35°	1050.5	711.2	456.9	397.3	389.4	398.9	408.4	408.4	384.6	371.1	367.9
37.5°	1127.6	696.1	426.7	379.8	374.3	394.1	406.8	398.1	360.8	344.1	340.1
40°	1210.2	686.5	397.3	362.3	366.3	386.2	393.3	366.3	328.2	317.8	314.7
42.5°	1330.2	667.5	371.1	347.2	359.2	375.1	375.1	326.6	312.3	306.7	305.9
45°	1479.6	654.0	348.0	334.5	348.8	352.8	340.1	305.9	295.6	294.0	294.8
47.5°	1552.7	627.7	324.2	319.4	329.8	330.6	297.2	289.2	280.5	278.1	276.5
50°	1541.5	580.9	293.2	299.6	313.9	305.9	271.0	272.6	264.6	263.8	259.8
52.5°	1463.7	507.0	262.2	277.3	293.2	270.2	249.5	247.9	247.9	237.6	233.6
55°	1297.6	408.4	224.9	243.9	263.0	227.3	221.7	220.1	216.1	206.6	204.2
57.5°	1027.4	299.6	169.3	189.9	223.3	193.1	192.3	185.1	174.8	167.7	167.7
60°	611.1	172.4	106.5	116.0	147.8	156.5	174.0	170.8	153.4	142.2	139.1
62.5°	278.9	89.0	67.5	69.1	79.5	101.7	136.7	158.1	133.5	114.4	112.8
65°	93.8	66.0	55.6	53.2	54.8	61.2	81.8	112.0	106.5	88.2	85.0
67.5°	57.2	58.8	52.4	48.5	48.5	47.7	46.9	50.9	62.8	61.2	62.0
70°	49.3	54.0	48.5	43.7	42.1	39.7	33.4	27.8	23.8	27.8	29.4
72.5°	39.7	42.9	41.3	37.3	33.4	30.2	23.8	18.3	13.5	11.9	11.9
75°	29.4	31.8	33.4	28.6	25.4	21.5	17.5	11.9	7.2	4.8	4.8
77.5°	21.5	23.8	24.6	22.2	19.1	15.1	11.1	7.9	4.0	1.6	1.6
80°	18.3	21.5	23.8	22.2	19.9	14.3	10.3	5.6	3.2	0.8	0.8
82.5°	17.5	21.5	23.8	21.5	19.1	13.5	10.3	6.4	2.4	0.8	0.8
85°	4.0	5.6	7.2	8.7	10.3	10.3	7.9	4.8	2.4	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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)