

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: P526113

Luminaire Tested: **GALN-SA1A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2621 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

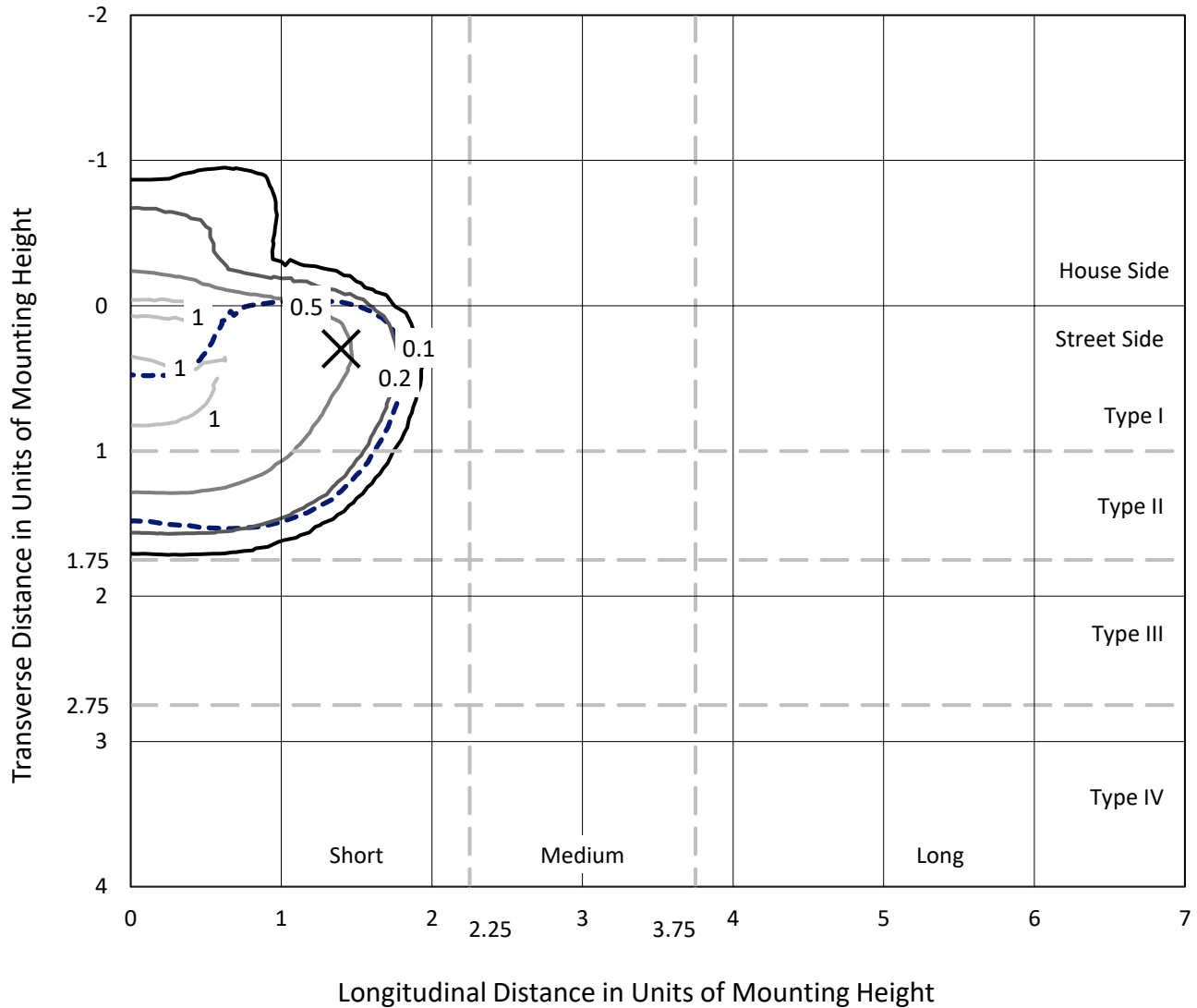
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

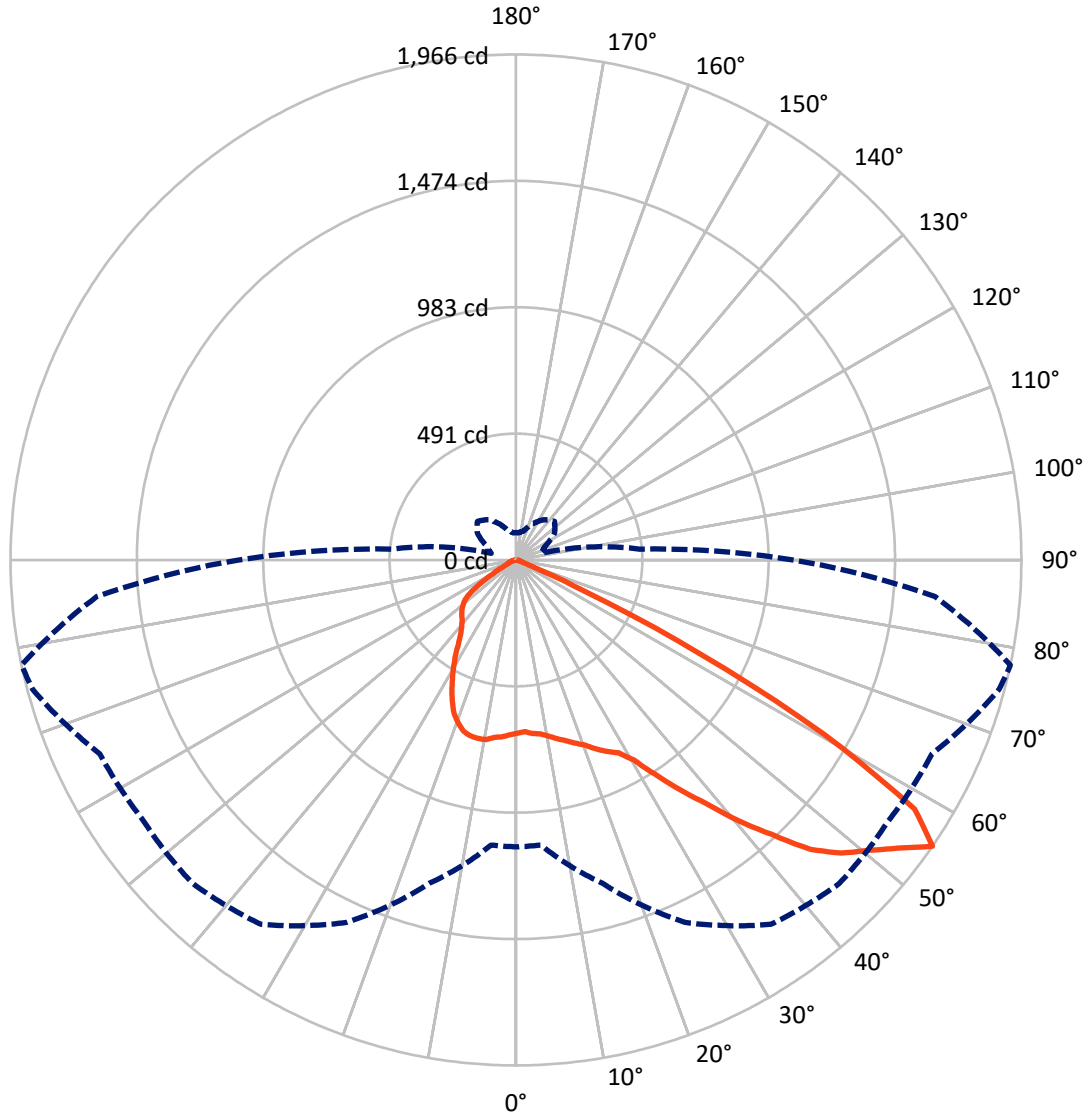
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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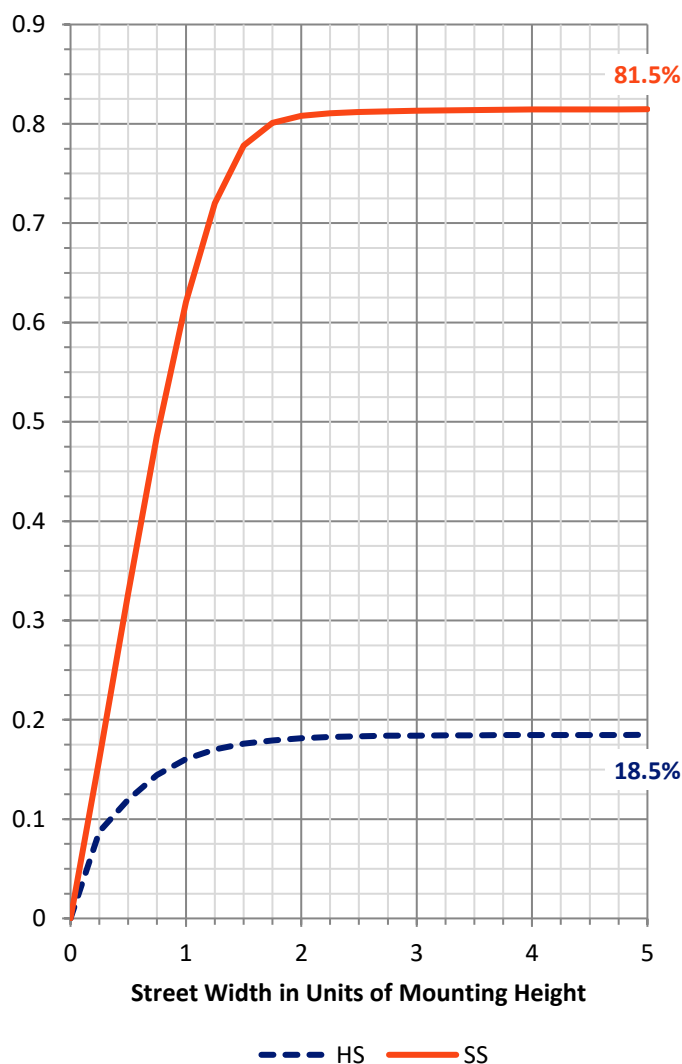
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.8	0.0	486.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2134.2	0.0	2134.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	2621.0	0.0	2621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	2.3
10°-20°	159.0	6.1
20°-30°	278.7	10.6
30°-40°	459.6	17.5
40°-50°	668.8	25.5
50°-60°	757.8	28.9
60°-70°	216.7	8.3
70°-80°	16.8	0.6
80°-90°	3.5	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°	2621.0	100.0
0°-180°	2621.0	100.0

Coefficient of Utilization



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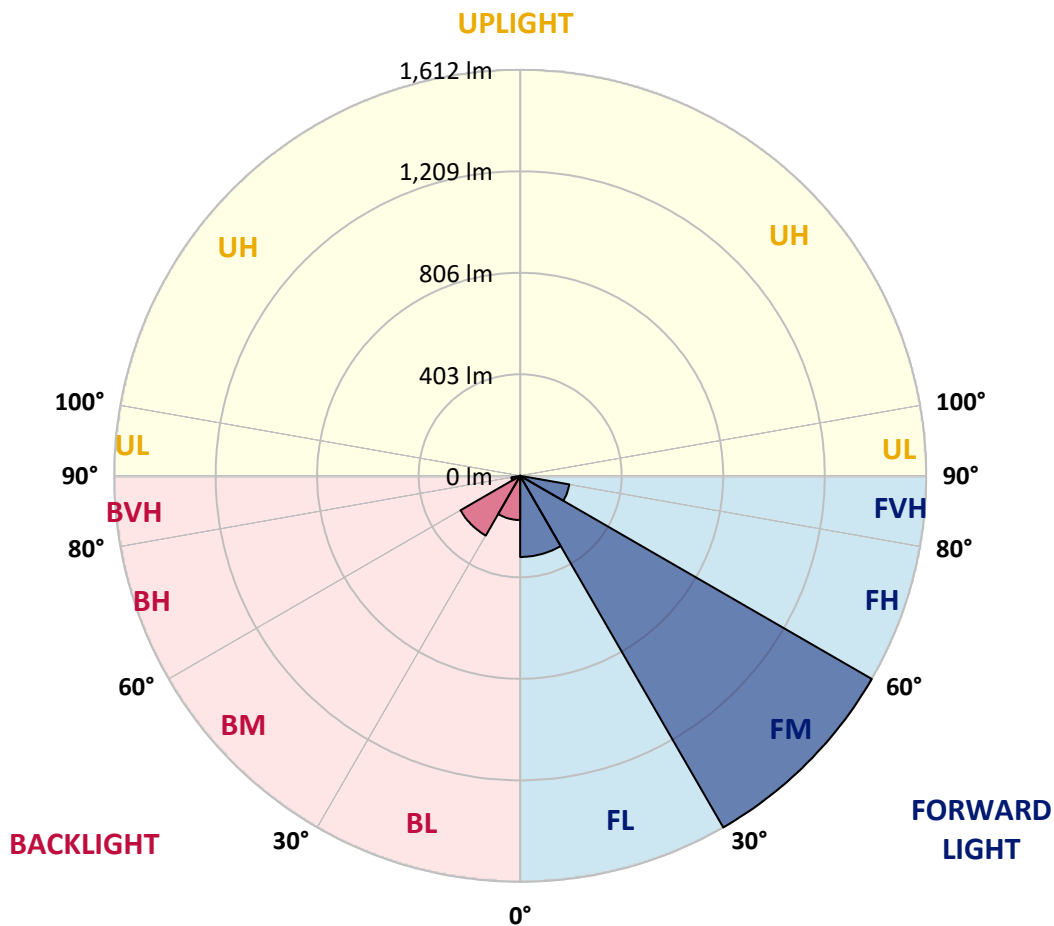
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.2	12.3			
FM (30°-60°)	1612.3	61.5			
FH (60°-80°)	198.0	7.6			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	175.6	6.7	B1/500		
BM (30°-60°)	273.8	10.4	B1/1000		
BH (60°-80°)	35.5	1.4	B0/110		G0/110
BVH (80°-90°)	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9
2.5°	633.6	639.7	640.6	648.1	647.6	660.3	664.0	664.5	672.9	668.7	679.5
5°	615.8	612.5	611.1	624.2	627.9	639.2	648.6	654.2	671.5	677.6	688.9
7.5°	599.8	599.8	600.8	612.5	611.1	625.6	635.4	652.8	678.1	683.2	696.8
10°	584.4	578.7	585.8	597.9	608.3	614.8	635.4	651.8	681.4	696.4	715.1
12.5°	576.4	579.2	580.1	589.0	600.3	620.0	631.2	658.4	704.8	713.7	733.8
15°	626.5	620.9	607.3	599.4	608.7	618.1	646.2	673.9	717.0	729.6	752.1
17.5°	684.6	680.0	668.7	647.1	626.1	643.4	665.4	690.7	730.1	748.8	782.1
20°	760.6	753.1	741.8	699.6	681.4	662.6	686.0	716.0	751.6	768.5	802.7
22.5°	851.0	851.0	825.7	774.6	736.7	718.8	728.7	746.0	775.5	798.5	832.3
25°	945.2	942.4	919.4	866.5	802.3	781.2	792.4	804.6	812.6	825.2	847.7
27.5°	1053.0	1036.6	1007.5	948.9	892.2	851.5	863.6	852.9	843.0	849.6	881.9
30°	1126.1	1136.4	1099.4	1043.1	989.7	944.2	946.6	937.2	892.2	901.6	920.8
32.5°	1202.0	1208.5	1187.9	1157.0	1103.6	1050.6	1031.4	1023.4	989.7	993.9	975.2
35°	1265.2	1277.9	1259.6	1246.0	1230.6	1187.9	1135.0	1160.7	1106.4	1096.1	1047.3
37.5°	1323.4	1319.6	1341.2	1327.1	1323.8	1293.8	1235.7	1240.9	1204.3	1202.0	1145.8
40°	1375.4	1376.3	1405.8	1412.4	1399.3	1345.8	1261.5	1302.3	1331.8	1334.6	1262.4
42.5°	1418.5	1431.1	1456.4	1509.4	1489.7	1400.7	1288.2	1332.7	1442.4	1459.7	1373.0
45°	1456.0	1481.7	1513.1	1560.5	1549.2	1478.5	1354.8	1395.5	1560.5	1605.9	1477.1
47.5°	1458.3	1492.1	1526.3	1596.6	1610.6	1520.2	1423.6	1494.9	1654.2	1703.4	1553.0
50°	1448.9	1466.7	1535.2	1611.5	1643.4	1588.1	1520.2	1578.3	1745.1	1776.0	1591.4
52.5°	1337.9	1351.5	1488.8	1625.6	1702.5	1665.0	1648.1	1694.5	1837.9	1860.8	1627.5
55°	1115.3	1112.9	1301.8	1554.8	1729.6	1778.8	1768.5	1784.9	1945.2	1965.8	1636.4
57.5°	762.9	805.5	968.6	1294.8	1563.3	1752.1	1762.9	1735.7	1820.1	1828.0	1426.4
60°	411.4	429.2	560.5	864.1	1190.3	1427.9	1456.0	1406.8	1400.2	1377.7	1018.3
62.5°	163.5	172.4	247.0	427.8	648.6	867.9	928.3	908.2	865.1	806.0	527.2
65°	77.8	83.4	122.8	200.1	287.7	361.8	422.2	441.0	325.2	292.9	173.9
67.5°	53.0	57.2	89.5	114.3	102.6	107.3	139.6	129.8	76.4	65.1	48.3
70°	40.3	43.1	71.7	77.8	45.9	32.3	36.1	33.7	31.4	31.9	31.4
72.5°	28.6	30.9	52.5	45.9	20.2	15.0	19.2	23.0	23.0	23.0	22.5
75°	17.3	19.7	30.5	17.8	8.0	8.0	12.2	15.5	16.4	16.9	15.9
77.5°	8.9	11.2	10.3	5.2	5.2	6.1	8.9	10.8	11.7	11.7	11.2
80°	1.9	1.9	1.9	2.8	5.2	6.6	8.9	9.8	11.2	11.2	10.3
82.5°	0.0	0.5	1.4	2.8	4.7	6.1	8.4	9.8	11.2	11.7	10.8
85°	0.0	0.5	0.9	1.9	3.3	3.7	3.3	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
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°	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9	673.9
2.5°	680.4	681.8	679.5	679.0	677.1	682.8	669.2	665.9	674.3	666.4	668.2
5°	689.3	692.6	688.4	681.4	671.0	655.1	641.5	623.7	615.3	609.2	608.3
7.5°	695.9	698.2	694.0	671.5	640.6	600.3	570.3	548.3	530.9	525.8	517.3
10°	722.6	723.1	702.0	652.3	591.9	538.9	493.0	459.2	441.9	431.1	426.4
12.5°	740.4	739.5	696.8	614.3	533.7	463.5	411.0	370.2	354.3	349.1	345.8
15°	762.9	757.7	684.6	575.5	458.8	382.9	335.5	307.4	306.0	302.7	306.0
17.5°	780.7	766.2	666.8	504.7	387.1	315.4	284.4	286.3	290.1	293.3	293.8
20°	809.8	779.8	626.1	442.8	320.5	270.4	269.9	278.4	287.7	291.5	295.2
22.5°	831.8	785.4	582.5	376.8	266.2	252.1	260.1	272.7	279.8	283.5	289.1
25°	839.7	769.9	524.4	310.7	239.9	243.7	255.9	264.3	273.2	277.4	275.1
27.5°	847.7	762.0	455.0	255.9	225.9	238.1	248.4	256.8	259.6	265.2	269.0
30°	866.9	734.3	392.7	221.2	218.8	234.3	241.8	244.6	252.1	255.4	255.4
32.5°	882.4	723.5	326.6	204.8	217.9	236.2	237.1	237.1	238.1	235.7	234.8
35°	914.3	686.5	267.6	194.9	217.4	236.6	239.0	231.0	209.5	201.0	198.7
37.5°	953.6	662.6	224.0	192.6	220.7	242.3	246.0	216.0	187.9	174.3	172.0
40°	1001.4	645.7	195.4	191.7	228.2	255.4	244.1	204.3	167.8	148.1	147.1
42.5°	1057.2	630.3	176.2	191.2	237.6	269.0	242.3	194.5	147.1	134.0	135.9
45°	1101.7	621.8	163.1	187.9	240.9	276.9	243.7	177.1	138.7	130.3	131.2
47.5°	1136.4	604.0	152.3	182.3	240.4	279.8	231.0	170.1	134.5	136.8	139.2
50°	1137.3	580.1	138.7	170.1	233.4	274.6	216.5	163.5	133.6	143.4	148.1
52.5°	1124.7	546.4	124.2	152.8	217.0	256.8	203.4	160.7	129.3	128.4	134.0
55°	1079.7	483.1	99.8	123.7	183.2	211.8	191.7	155.6	116.7	105.9	106.8
57.5°	872.6	346.3	73.6	88.6	129.8	155.1	172.9	153.2	105.0	90.0	90.4
60°	540.3	196.3	53.9	60.5	80.1	94.2	140.1	142.5	93.7	75.9	75.0
62.5°	277.4	97.0	41.7	42.6	49.2	55.3	96.1	119.5	84.8	72.2	72.2
65°	92.8	47.8	36.6	32.8	32.8	34.2	58.1	82.9	71.7	60.5	60.5
67.5°	39.8	35.6	31.9	28.6	26.2	24.8	32.8	48.3	53.4	45.9	44.0
70°	30.9	30.0	27.6	23.9	20.6	18.7	19.2	24.8	30.5	29.5	28.6
72.5°	23.0	23.0	22.0	18.7	15.9	13.6	12.7	13.1	14.5	15.0	15.5
75°	15.9	16.4	16.4	14.5	11.7	9.8	8.4	7.0	5.6	4.7	4.2
77.5°	10.8	11.2	12.2	10.8	8.9	6.6	5.2	3.7	2.3	0.9	0.9
80°	9.4	10.8	11.7	10.8	9.4	7.0	5.2	2.8	1.4	0.0	0.0
82.5°	9.8	10.8	12.2	10.3	8.9	6.6	5.2	3.3	1.4	0.5	0.0
85°	2.3	2.3	2.8	3.3	4.2	4.7	3.7	2.3	1.4	0.5	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	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)