

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: P526449

Luminaire Tested: **GALN-SA1B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2527 lumens
Efficiency: N/A
Efficacy: 57.4 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

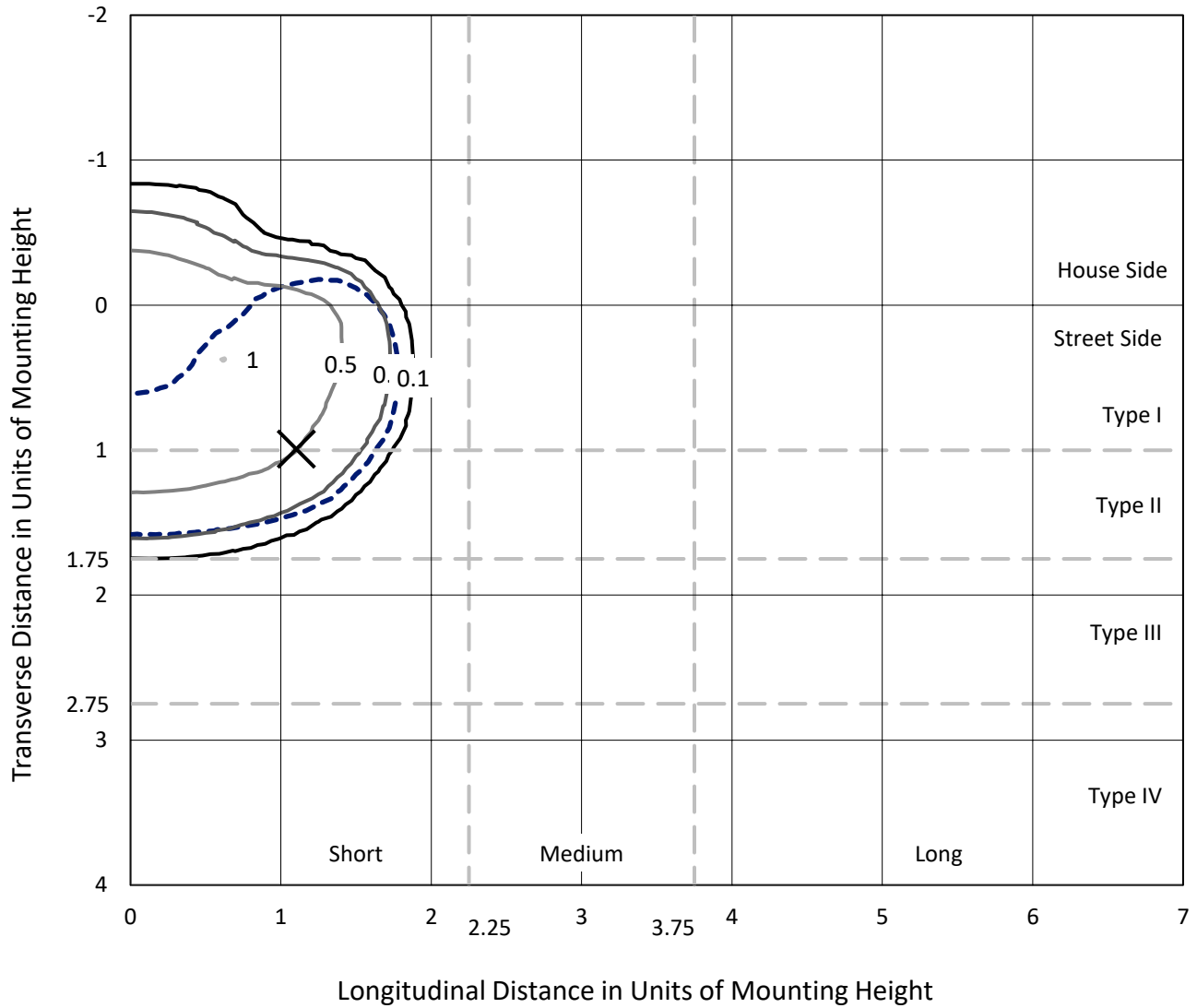
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

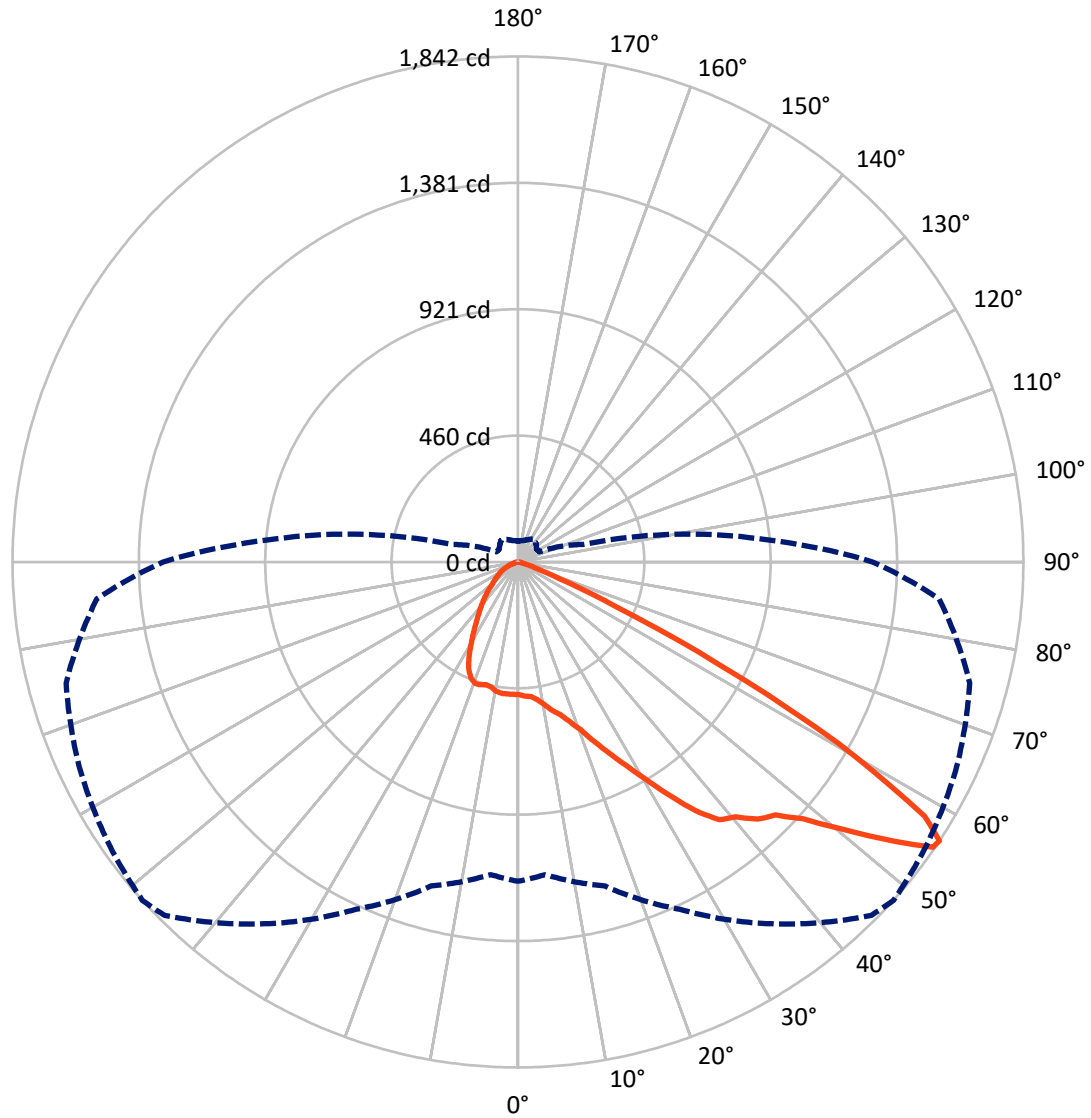
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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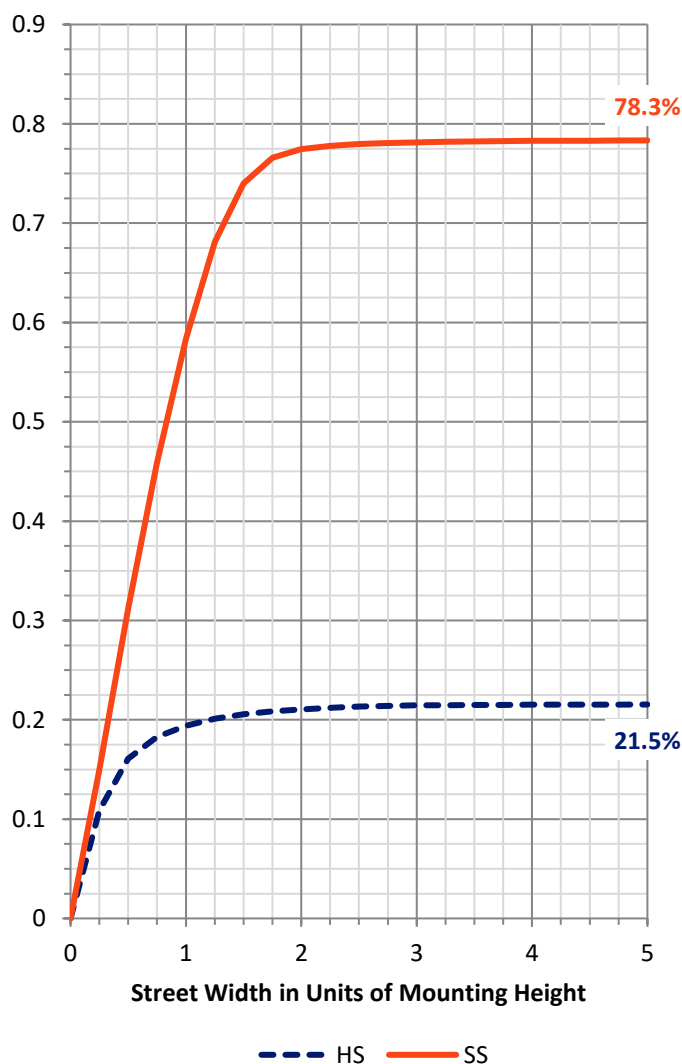
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.6	0.0	549.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1977.4	0.0	1977.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	2527.0	0.0	2527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.9
10°-20°	150.3	5.9
20°-30°	272.5	10.8
30°-40°	428.1	16.9
40°-50°	624.5	24.7
50°-60°	752.4	29.8
60°-70°	220.3	8.7
70°-80°	27.9	1.1
80°-90°	3.9	0.2
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°	2527.0	100.0
0°-180°	2527.0	100.0

Coefficient of Utilization

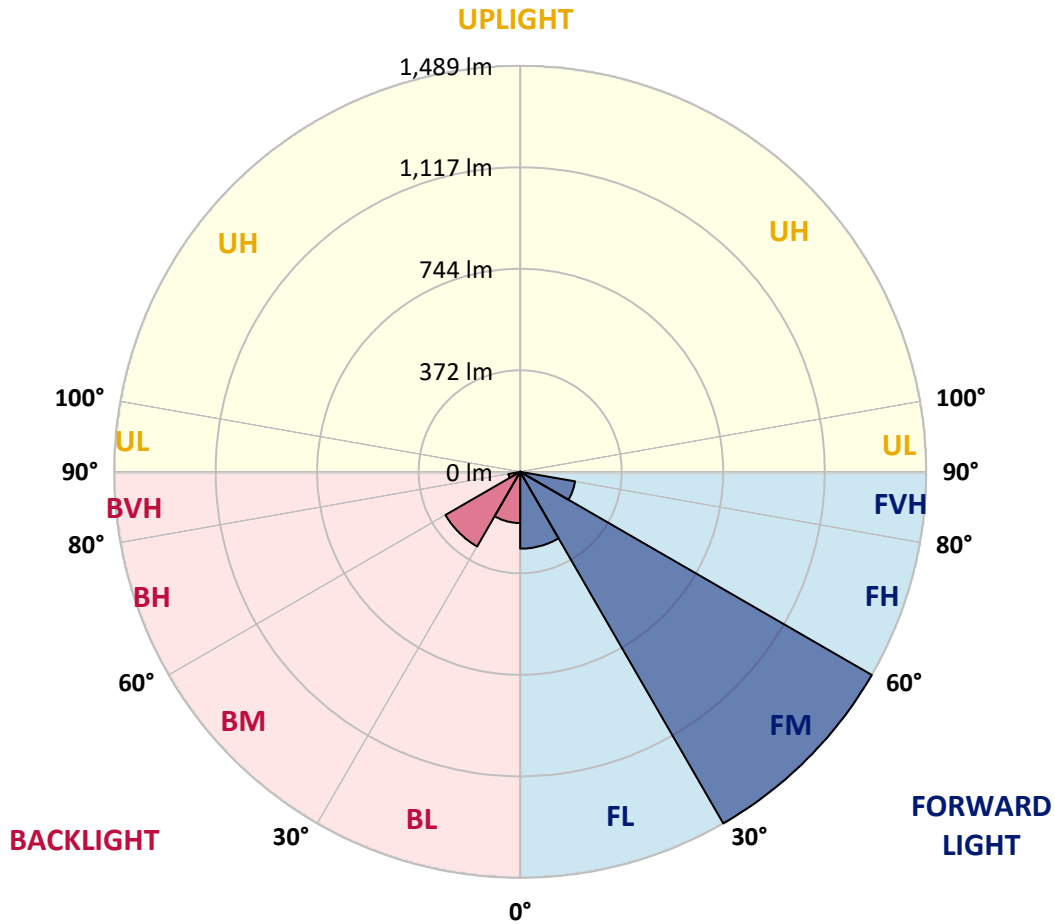


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.0	11.2			
FM (30°-60°)	1488.9	58.9			
FH (60°-80°)	204.6	8.1			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	187.8	7.4	B1/500		
BM (30°-60°)	316.1	12.5	B1/1000		
BH (60°-80°)	43.7	1.7	B0/110		G0/110
BVH (80°-90°)	2.0	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°	48°	55°	65°	75°	85°
0°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	491.4	489.1	489.1	485.4	489.6	487.7	489.1	484.5	489.1	482.2	487.7
5°	493.7	494.2	492.3	494.6	494.6	497.4	492.8	496.9	499.2	494.2	491.9
7.5°	505.7	506.6	506.1	504.3	508.0	507.5	507.0	503.8	504.7	502.9	500.1
10°	529.1	528.7	531.0	526.4	523.6	526.8	527.7	522.7	519.0	517.6	508.9
12.5°	563.2	557.7	554.4	549.8	551.2	546.6	554.9	546.2	544.3	536.0	527.3
15°	590.8	589.9	590.3	583.0	574.7	576.5	576.5	571.9	569.2	559.0	546.6
17.5°	647.4	628.1	632.2	623.0	616.1	615.6	611.5	612.4	605.0	583.9	565.0
20°	691.5	683.3	676.8	661.2	650.6	653.8	652.0	647.4	645.1	617.5	590.8
22.5°	731.1	733.9	723.3	719.2	704.4	705.8	709.5	705.4	687.9	659.3	619.8
25°	786.8	783.6	769.3	764.2	750.4	755.5	769.8	766.5	755.5	704.0	642.3
27.5°	852.6	841.5	844.3	821.3	808.0	822.2	839.2	855.3	824.1	756.4	669.0
30°	899.1	887.6	886.6	885.7	882.5	899.1	918.8	933.6	908.3	808.9	713.2
32.5°	922.1	924.8	932.6	929.9	958.0	992.0	1012.7	1033.9	1002.1	894.5	771.6
35°	983.3	965.8	983.3	985.1	1014.1	1086.3	1112.6	1163.2	1155.3	1015.5	842.9
37.5°	1019.1	1017.8	1020.1	1037.6	1065.6	1154.9	1192.2	1231.3	1216.5	1088.2	931.7
40°	1078.5	1082.2	1081.7	1095.1	1125.9	1206.4	1221.6	1253.3	1254.7	1188.9	1062.4
42.5°	1173.7	1159.0	1149.4	1163.2	1206.4	1251.0	1281.4	1275.0	1320.5	1311.3	1230.3
45°	1259.3	1268.1	1253.8	1276.8	1292.5	1316.4	1315.5	1329.3	1387.2	1431.0	1356.9
47.5°	1339.4	1344.9	1351.8	1367.5	1401.5	1405.2	1397.4	1391.4	1471.4	1516.5	1454.9
50°	1387.2	1392.3	1424.5	1452.6	1516.1	1524.4	1529.0	1513.8	1568.1	1573.1	1547.4
52.5°	1374.4	1379.9	1425.0	1517.5	1618.7	1694.6	1680.8	1655.0	1651.8	1671.6	1632.9
55°	1260.2	1255.2	1317.3	1461.3	1650.9	1833.1	1834.9	1807.8	1755.8	1742.4	1620.1
56°	1163.2	1143.4	1222.5	1396.4	1609.5	1821.1	1841.8	1812.8	1764.1	1704.3	1540.5
57.5°	952.9	971.8	1050.4	1194.5	1466.4	1735.1	1747.0	1740.1	1703.3	1603.0	1355.5
60°	525.4	558.6	628.1	804.3	1044.0	1331.6	1341.2	1397.4	1404.3	1227.6	932.6
62.5°	223.2	219.5	291.7	421.5	594.5	803.8	821.8	879.3	889.9	707.7	467.9
65°	90.6	95.7	132.1	212.1	314.3	366.2	391.6	410.4	445.4	292.2	172.5
67.5°	59.8	59.4	77.8	121.0	169.3	163.3	163.3	172.5	159.7	119.2	74.5
70°	42.8	44.2	55.7	83.7	105.4	78.2	75.0	71.8	81.4	78.7	60.3
72.5°	28.1	29.9	37.3	50.2	54.8	42.8	42.8	51.5	67.2	63.5	49.2
75°	18.4	18.9	23.0	29.0	27.1	22.1	24.4	34.5	48.8	46.9	35.0
77.5°	12.4	12.9	15.6	18.9	15.2	12.4	13.3	17.5	23.9	23.9	18.4
80°	4.6	5.1	6.4	6.0	6.9	8.7	9.7	12.0	14.3	14.3	12.4
82.5°	0.0	0.5	1.4	3.2	5.1	6.9	7.8	9.2	10.6	12.0	11.5
85°	0.0	0.5	1.4	2.3	3.7	4.1	4.6	3.2	2.8	2.8	2.3
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.5
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°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	482.7	482.2	482.2	480.8	483.6	482.2	483.1	482.7	476.7	481.3	478.1
5°	487.7	490.9	485.9	485.0	481.3	482.7	482.7	478.1	482.2	481.7	480.8
7.5°	500.6	495.1	489.6	484.0	483.1	481.7	476.7	474.8	478.1	474.4	479.9
10°	506.1	507.0	498.8	491.4	484.5	474.8	467.9	463.8	458.7	464.3	467.5
12.5°	531.4	522.2	508.0	496.5	473.0	463.3	456.4	454.6	463.3	465.2	462.0
15°	540.2	538.8	520.4	494.6	470.2	458.7	460.1	456.4	457.4	452.8	453.7
17.5°	558.1	542.5	520.8	488.6	469.8	467.0	458.7	444.0	435.7	432.0	435.3
20°	577.9	562.7	531.4	490.9	473.9	466.6	439.4	421.5	404.4	395.2	395.7
22.5°	595.4	576.5	526.8	491.9	477.6	447.2	414.6	379.1	358.0	343.7	344.2
25°	616.6	589.9	528.7	493.7	467.9	416.4	369.5	335.0	309.7	300.0	303.2
27.5°	628.5	598.1	538.8	497.8	442.6	372.7	322.1	289.9	275.1	270.5	270.1
30°	664.4	616.6	551.2	489.6	400.3	325.8	278.8	259.0	244.8	240.6	241.6
32.5°	717.8	650.1	567.3	467.9	357.0	283.9	250.8	236.0	222.7	214.9	214.0
35°	762.4	707.7	584.3	434.3	306.9	251.7	231.0	212.6	192.3	183.6	181.3
37.5°	847.5	772.5	580.7	383.7	259.0	227.8	209.8	187.3	169.8	157.8	156.4
40°	960.7	848.4	562.7	322.1	223.6	206.6	187.3	165.6	144.0	133.9	133.0
42.5°	1098.3	941.4	530.0	259.5	188.2	185.4	167.9	143.1	123.8	116.4	116.9
45°	1210.1	1021.0	496.9	208.4	162.0	164.7	149.5	126.1	112.7	106.7	106.7
47.5°	1309.5	1074.8	461.0	172.1	137.6	144.0	130.7	116.9	105.4	100.8	99.8
50°	1405.2	1129.6	425.1	139.4	117.3	123.8	122.4	111.3	102.1	96.6	97.1
52.5°	1465.0	1138.3	379.6	114.1	102.6	110.0	114.6	104.4	94.3	91.1	90.2
55°	1391.8	1025.6	294.5	93.9	87.0	96.6	105.4	93.9	86.0	80.5	80.1
56°	1293.4	917.0	246.2	86.5	82.4	92.9	102.1	89.7	81.0	77.8	75.5
57.5°	1095.1	750.4	181.7	76.8	76.4	86.5	97.1	85.6	75.5	72.7	72.7
60°	682.8	422.4	110.0	64.4	66.3	76.8	87.4	76.4	67.2	67.2	68.6
62.5°	311.0	175.8	66.7	54.8	57.1	66.3	77.8	69.0	64.0	69.0	69.9
65°	105.8	75.9	48.3	43.7	45.1	54.8	66.7	69.9	69.5	72.7	74.5
67.5°	59.4	48.8	40.5	36.3	35.4	40.5	54.8	69.9	67.2	65.8	66.7
70°	50.2	41.4	35.9	32.2	30.8	32.7	42.3	52.9	47.4	46.0	45.1
72.5°	40.5	34.5	31.3	29.0	24.8	21.2	19.3	20.2	22.5	23.9	26.2
75°	28.5	26.2	26.2	23.5	17.9	13.3	10.6	8.7	6.0	4.1	4.6
77.5°	16.1	16.1	16.6	14.3	11.5	8.7	6.4	4.6	2.3	0.9	0.5
80°	11.0	12.0	12.9	11.5	9.7	7.8	5.5	3.2	1.4	0.0	0.0
82.5°	11.0	12.4	13.3	11.5	9.7	7.4	5.5	3.2	1.4	0.5	0.0
85°	2.3	2.8	3.2	3.7	5.5	5.5	4.1	2.8	1.4	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)