

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: P526125

Luminaire Tested: **GALN-SA1A-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2701 lumens
Efficiency: N/A
Efficacy: 81.8 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

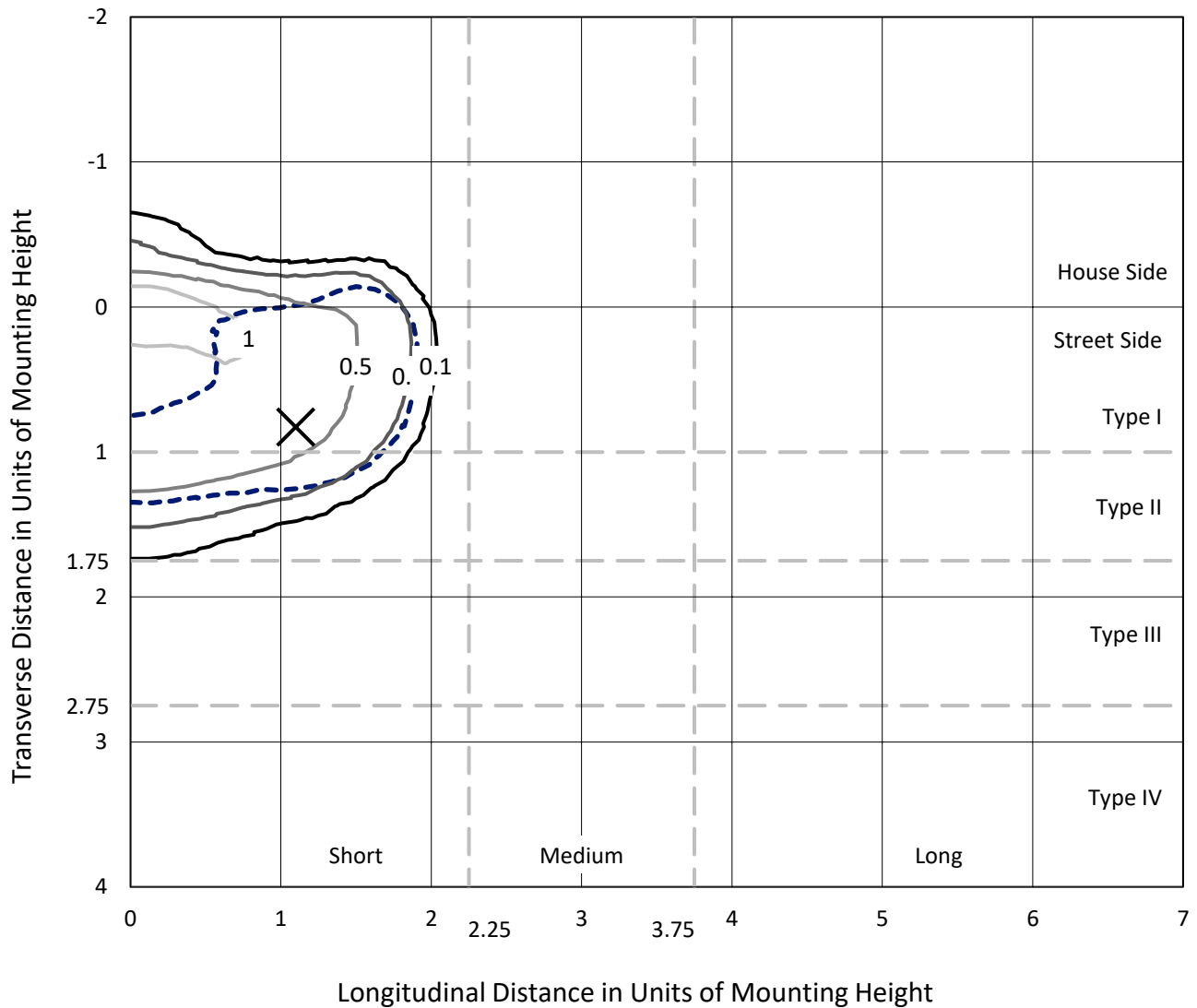
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

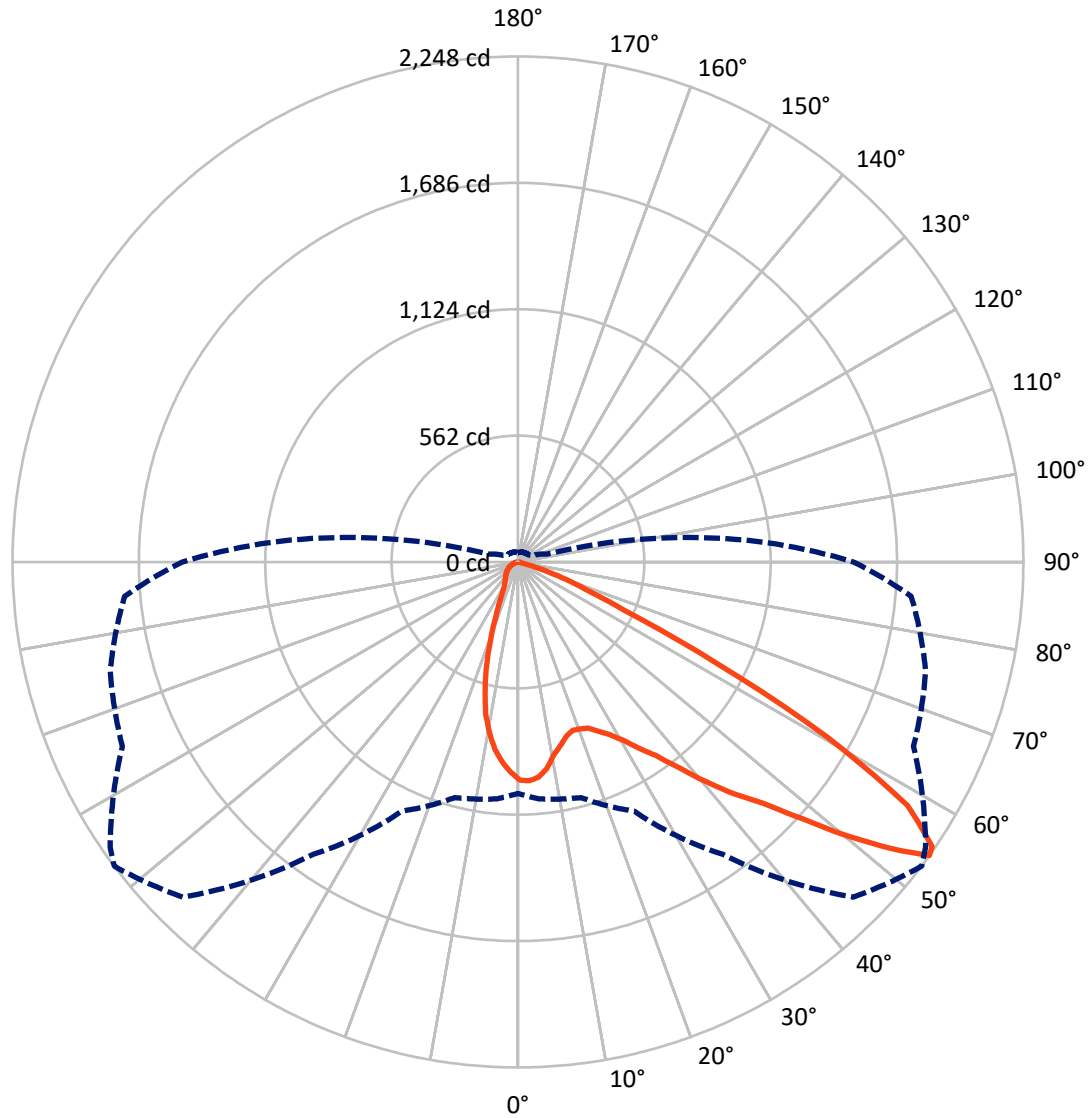
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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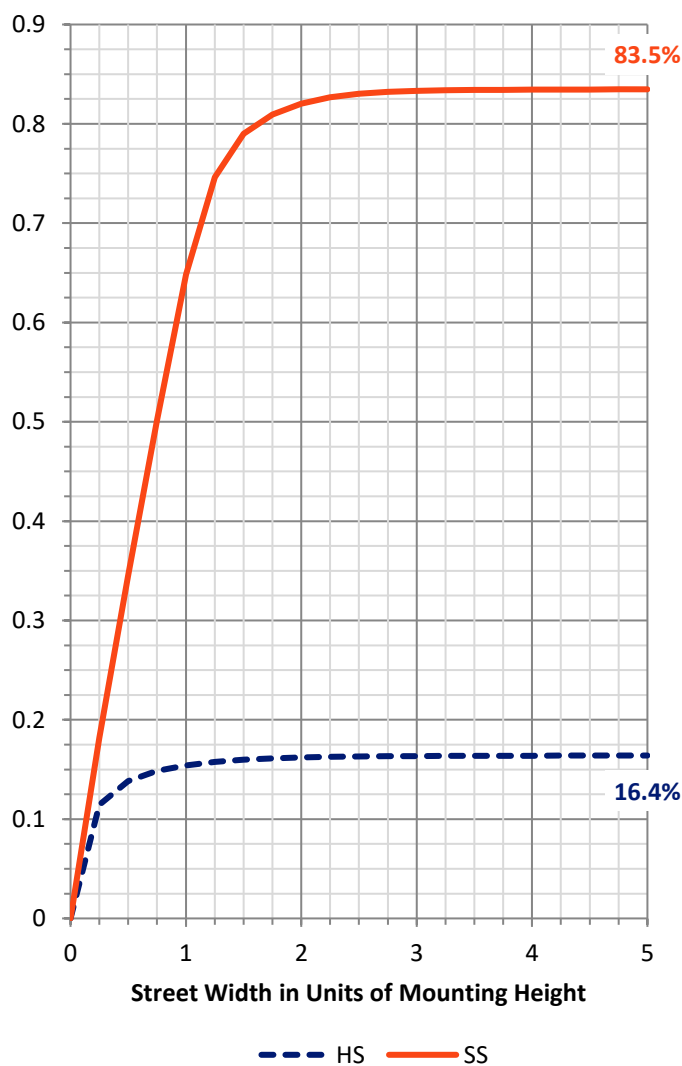
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.9	0.0	446.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2254.1	0.0	2254.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	2701.0	0.0	2701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.1
10°-20°	190.8	7.1
20°-30°	271.2	10.0
30°-40°	418.6	15.5
40°-50°	656.3	24.3
50°-60°	762.3	28.2
60°-70°	288.1	10.7
70°-80°	27.4	1.0
80°-90°	3.1	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°	2701.0	100.0
0°-180°	2701.0	100.0

Coefficient of Utilization

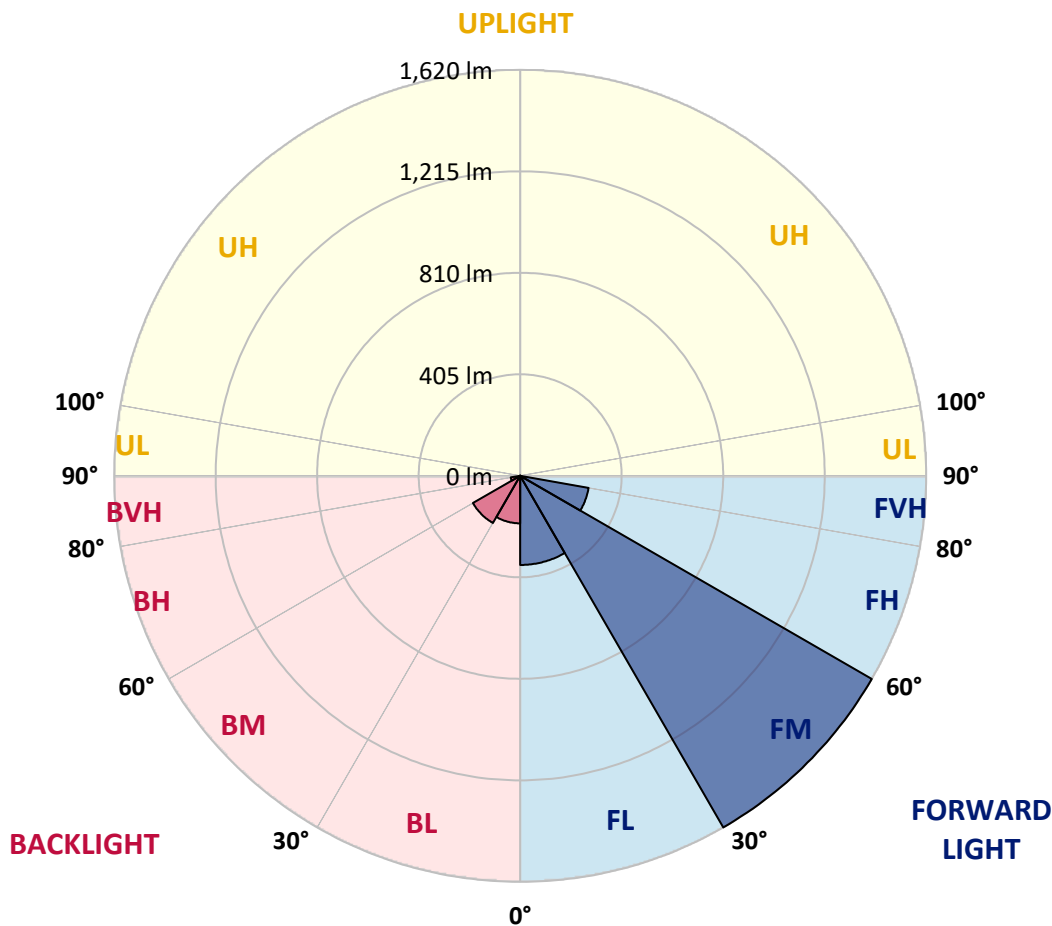


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.7	13.2			
FM (30°-60°)	1619.7	60.0			
FH (60°-80°)	277.2	10.3			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	189.6	7.0	B1/500		
BM (30°-60°)	217.5	8.1	B0/220		
BH (60°-80°)	38.3	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2
2.5°	965.1	956.6	965.1	966.1	972.2	977.7	974.2	982.2	977.7	972.7	971.2
5°	887.1	898.7	899.2	917.3	913.3	946.5	961.1	957.1	981.7	980.2	976.7
7.5°	817.2	812.7	818.7	839.8	866.5	904.7	925.9	925.4	960.6	985.8	983.2
10°	752.3	751.8	764.3	781.0	803.6	843.9	873.0	887.6	942.5	980.7	986.3
12.5°	708.5	706.5	720.1	733.7	769.4	800.6	837.8	844.9	907.8	963.1	972.2
15°	679.8	684.3	685.3	711.5	734.2	775.4	804.6	819.2	891.7	949.0	983.7
17.5°	674.8	680.8	681.3	703.0	727.1	761.8	787.5	807.1	878.1	956.1	984.2
20°	684.8	681.3	684.3	697.9	721.6	754.8	792.0	798.6	873.5	959.6	989.8
22.5°	713.5	712.5	705.0	716.0	732.6	767.4	802.6	812.7	886.6	977.7	994.3
25°	745.2	750.8	743.7	742.2	753.8	788.0	834.8	847.9	930.4	1010.4	1008.4
27.5°	804.6	799.1	799.1	792.0	789.0	805.6	869.5	891.2	979.2	1052.7	1024.5
30°	861.5	867.5	863.0	865.5	845.4	843.9	918.8	945.5	1065.8	1117.1	1058.7
32.5°	951.5	943.5	951.0	944.5	917.8	890.6	985.8	1013.4	1170.4	1191.1	1110.0
35°	1026.5	1023.0	1055.2	1054.2	1010.9	984.2	1056.7	1098.0	1243.4	1279.6	1170.4
37.5°	1133.2	1126.6	1163.4	1181.0	1142.2	1102.5	1158.3	1206.2	1311.3	1350.6	1232.3
40°	1242.9	1259.5	1308.8	1338.0	1296.7	1243.9	1282.6	1297.2	1356.6	1396.9	1274.6
42.5°	1381.8	1405.9	1456.2	1481.4	1477.9	1420.5	1408.9	1408.4	1389.3	1383.8	1305.8
45°	1515.1	1506.1	1583.5	1638.4	1682.7	1666.1	1530.7	1515.6	1441.1	1403.4	1313.8
47.5°	1573.5	1570.5	1623.3	1720.9	1871.9	1892.5	1707.8	1649.5	1528.7	1485.9	1357.6
50°	1498.0	1513.6	1565.9	1674.1	1905.6	2063.1	1925.2	1846.7	1630.8	1586.6	1461.3
52.5°	1251.4	1262.0	1311.8	1449.2	1790.9	2163.7	2133.5	2088.2	1818.5	1745.1	1641.9
54°	1029.0	1057.2	1084.4	1222.3	1586.6	2107.9	2247.8	2213.0	1940.8	1876.9	1755.6
55°	896.2	912.8	932.4	1069.8	1445.2	2013.3	2234.7	2237.7	2022.8	1918.2	1832.1
57.5°	654.7	666.2	646.1	707.0	992.3	1634.9	2044.0	2125.5	2133.5	1980.1	1878.9
60°	500.2	505.2	482.6	492.1	616.9	1122.1	1581.0	1679.2	1924.7	1730.5	1591.6
62.5°	388.0	389.0	388.5	405.1	425.2	660.2	988.8	1075.8	1326.9	1228.8	1080.9
65°	285.8	281.3	289.3	339.7	362.8	415.1	520.8	584.2	721.1	608.9	435.3
67.5°	185.2	186.7	194.7	252.6	311.0	318.5	320.5	315.5	316.0	174.1	109.2
70°	111.2	113.7	111.2	142.9	222.4	228.4	208.8	203.8	159.0	41.3	40.8
72.5°	65.9	62.4	55.9	61.4	92.6	110.7	99.6	99.1	62.4	24.2	24.2
75°	27.7	25.2	20.6	18.6	24.7	23.7	23.7	21.1	16.6	16.1	15.1
77.5°	5.5	5.5	4.0	4.5	6.0	7.0	8.6	8.6	10.1	10.1	9.6
80°	0.0	0.5	1.5	3.0	4.5	6.5	7.5	7.5	8.6	8.6	7.0
82.5°	0.0	0.5	1.5	3.0	4.0	6.0	7.5	7.5	8.6	9.1	7.5
85°	0.0	0.5	1.5	2.5	4.0	5.0	5.0	4.5	3.5	3.0	2.0
87.5°	0.0	0.0	0.5	1.0	0.5	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°	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2
2.5°	974.7	974.2	962.1	942.5	937.9	921.3	919.3	909.3	914.8	896.2	894.2
5°	966.6	960.6	946.0	933.4	896.7	870.5	849.9	824.7	810.1	812.7	803.1
7.5°	978.2	962.6	936.9	893.2	848.4	802.6	777.9	726.6	708.0	680.3	676.3
10°	966.1	954.6	914.8	842.3	780.5	714.5	656.7	599.8	556.5	537.9	533.9
12.5°	965.1	945.0	878.6	798.1	708.5	613.9	529.9	458.9	416.1	392.0	386.5
15°	949.5	925.4	837.8	729.6	605.8	488.1	396.5	328.1	295.4	281.3	285.3
17.5°	951.0	914.8	797.1	657.2	504.7	358.3	270.7	235.5	226.9	230.5	230.5
20°	949.5	891.2	747.7	573.6	386.5	248.6	198.8	186.2	191.7	202.8	200.3
22.5°	941.5	880.1	702.5	485.6	284.3	184.2	159.5	160.0	168.6	182.2	185.2
25°	947.5	855.4	645.1	396.5	207.3	146.9	138.4	141.9	151.0	161.0	163.0
27.5°	943.0	837.8	585.2	308.0	151.5	126.3	125.8	129.8	133.8	141.4	141.4
30°	948.0	821.7	526.3	229.0	124.8	115.7	113.7	116.7	120.8	122.3	121.8
32.5°	966.6	809.6	458.4	171.1	110.2	105.7	105.7	105.7	105.2	107.2	107.7
35°	1007.4	811.6	398.5	132.3	100.6	97.1	95.6	93.6	92.6	93.6	94.1
37.5°	1051.7	810.6	336.6	112.7	93.6	90.6	87.1	84.0	83.5	84.5	83.0
40°	1071.3	820.2	279.3	101.1	87.1	83.5	78.0	75.5	76.0	77.0	76.0
42.5°	1098.0	823.2	242.0	92.1	81.0	75.5	72.0	68.9	68.4	69.9	69.4
45°	1097.5	806.1	202.8	87.1	75.5	69.4	64.9	62.4	62.4	63.4	63.9
47.5°	1129.7	803.6	174.1	82.5	71.5	65.4	59.9	57.9	57.4	57.4	56.4
50°	1204.6	838.8	152.0	77.5	66.4	60.9	56.4	53.8	51.8	50.8	50.3
52.5°	1351.1	948.5	134.9	71.5	60.9	56.4	52.3	50.3	47.8	45.3	44.8
54°	1493.0	1061.7	133.8	66.4	56.4	53.3	49.8	48.8	45.8	42.3	41.3
55°	1556.9	1127.7	137.4	62.4	53.3	51.3	48.3	47.3	44.3	40.3	39.8
57.5°	1609.7	1153.3	135.4	51.8	48.3	47.8	45.3	43.8	40.3	34.7	33.7
60°	1295.7	872.0	97.1	45.8	44.3	43.3	41.3	40.3	35.7	29.7	29.2
62.5°	818.7	501.7	61.9	40.3	38.7	37.2	34.7	33.7	29.7	23.7	22.1
65°	348.7	207.8	41.8	35.7	33.2	30.7	28.7	27.2	23.7	17.6	17.1
67.5°	90.6	74.0	34.7	31.2	27.7	24.2	22.6	20.1	16.1	12.1	11.6
70°	40.8	37.2	29.2	26.2	22.1	18.6	16.6	14.1	10.6	8.1	7.5
72.5°	24.2	23.7	22.1	19.6	16.6	14.1	12.1	9.6	7.0	4.5	4.5
75°	15.1	14.6	15.1	13.6	11.6	10.6	9.1	6.5	4.0	2.0	2.0
77.5°	9.1	9.1	9.1	8.6	8.1	8.1	6.5	4.0	2.0	0.5	0.5
80°	7.0	7.0	7.5	7.0	7.0	7.0	5.5	3.0	1.0	0.0	0.0
82.5°	7.0	7.5	8.6	8.1	7.0	6.0	5.0	3.0	1.0	0.0	0.0
85°	2.0	1.5	2.5	3.5	5.0	4.5	3.5	2.5	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	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)