

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: P526199

Luminaire Tested: **GALN-SA1A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538 lumens
Efficiency: N/A
Efficacy: 76.9 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

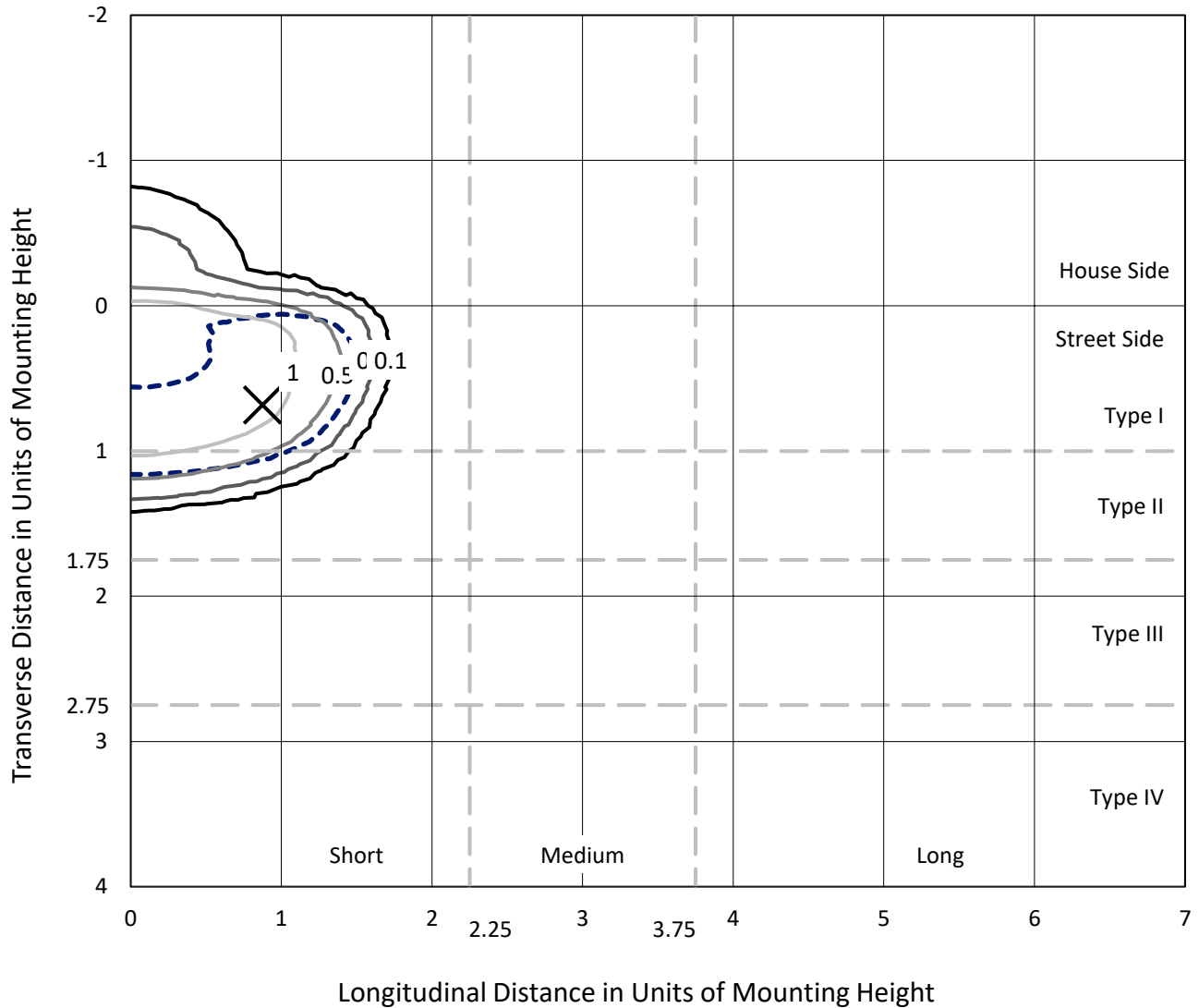
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

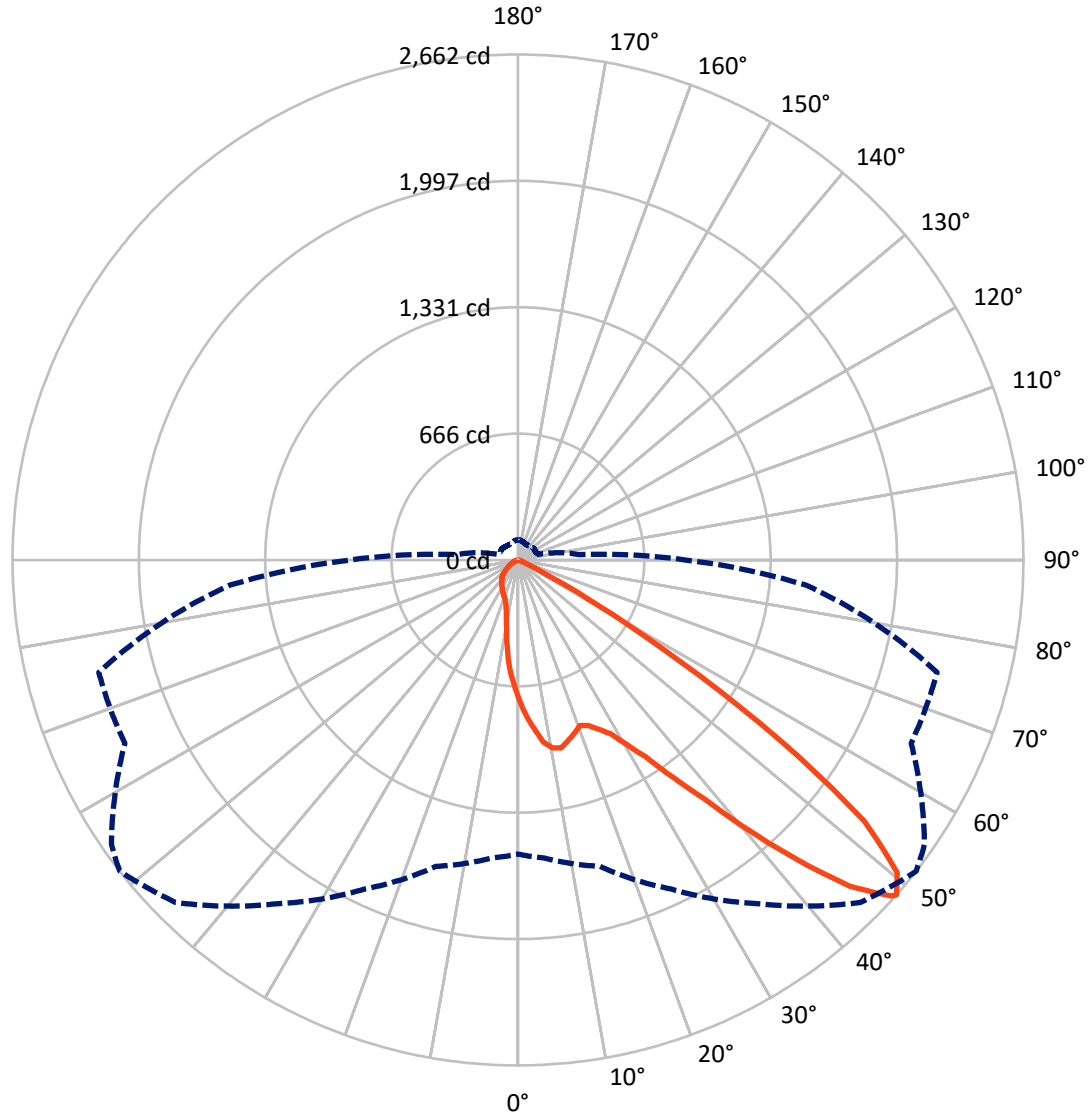
✕ Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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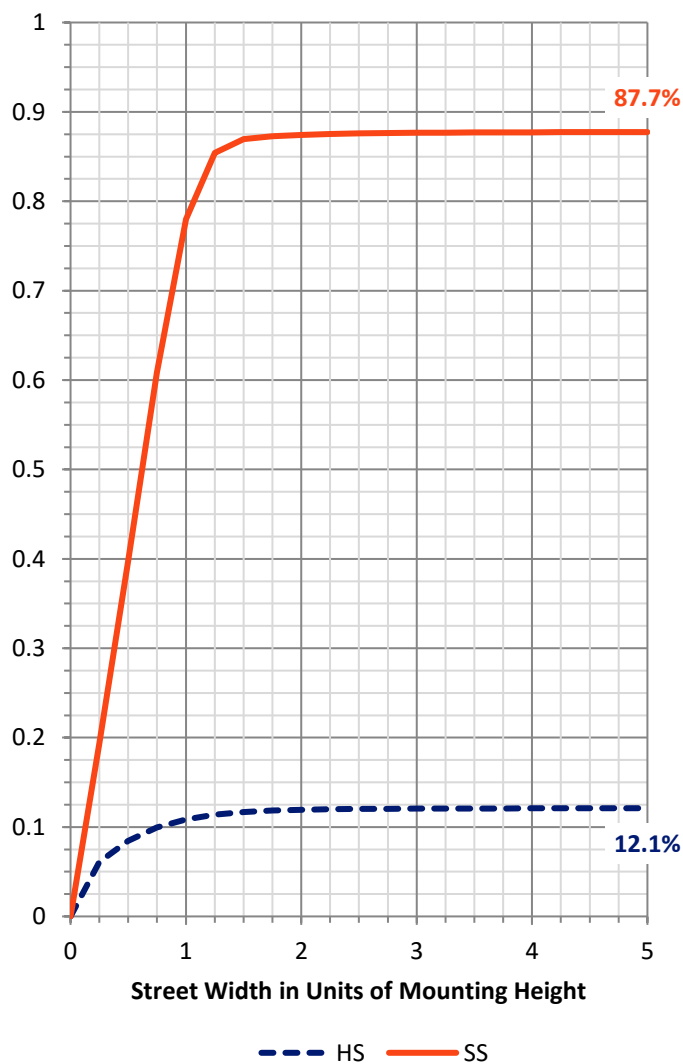
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	309.0	0.0	309.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2229.0	0.0	2229.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	2538.0	0.0	2538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	2.6
10°-20°	175.3	6.9
20°-30°	299.3	11.8
30°-40°	551.2	21.7
40°-50°	856.1	33.7
50°-60°	515.2	20.3
60°-70°	59.6	2.3
70°-80°	11.5	0.5
80°-90°	2.7	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°	2538.0	100.0
0°-180°	2538.0	100.0

Coefficient of Utilization



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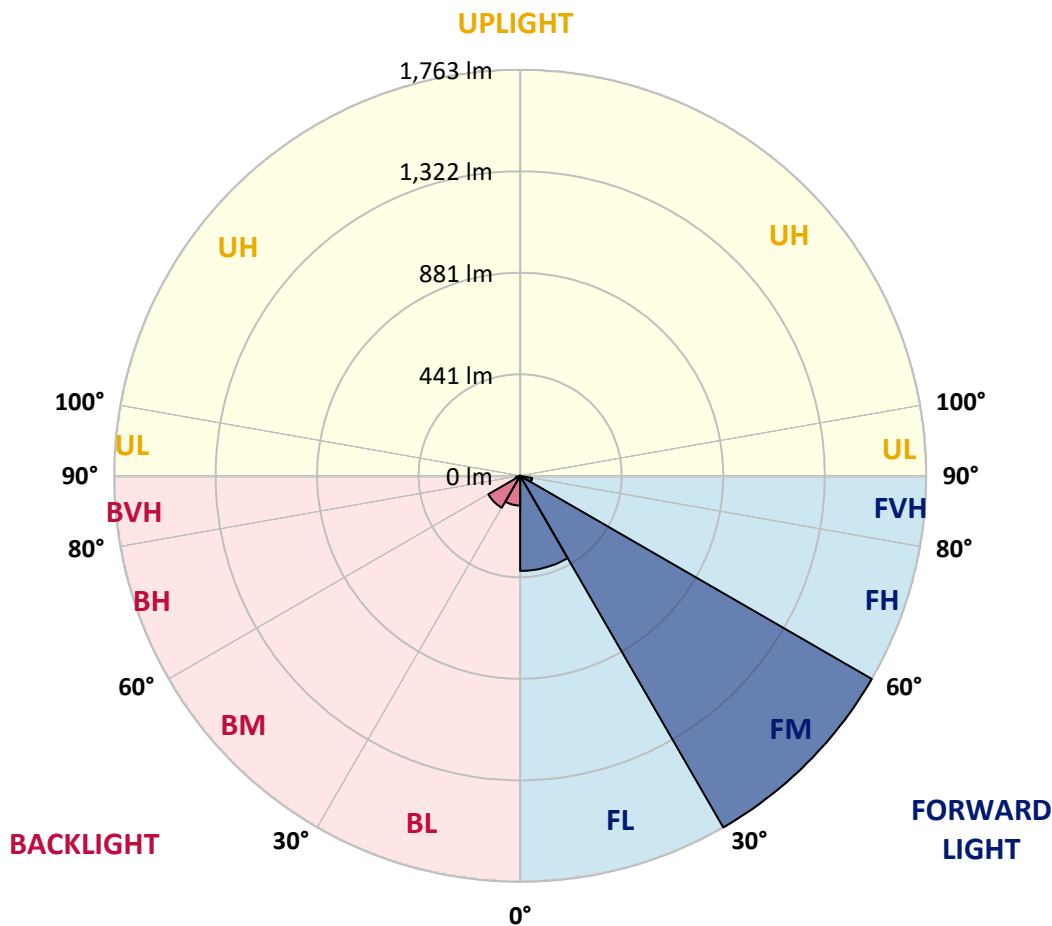
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.6	16.3			
FM (30°-60°)	1762.6	69.4			
FH (60°-80°)	52.5	2.1			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	129.1	5.1	B1/500		
BM (30°-60°)	159.9	6.3	B0/220		
BH (60°-80°)	18.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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°	52°	55°	65°	75°	85°
0°	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9
2.5°	888.3	868.0	869.8	856.5	848.7	836.2	819.1	815.8	797.3	772.2	746.6
5°	968.2	963.4	969.7	950.5	951.2	930.5	890.5	891.3	848.7	807.7	768.1
7.5°	973.4	962.3	968.6	985.6	995.6	991.9	969.4	949.7	909.4	849.1	791.4
10°	871.7	892.8	899.4	927.5	967.5	1009.7	1007.1	1008.2	974.5	895.7	811.4
12.5°	810.6	796.6	819.1	836.2	896.5	978.2	1015.6	1023.7	1026.3	940.9	831.3
15°	782.9	782.9	786.6	791.4	835.0	910.5	986.7	1010.4	1066.3	1000.1	862.8
17.5°	800.3	799.5	804.7	794.7	811.0	869.1	960.1	987.1	1111.1	1058.1	887.6
20°	853.2	855.8	852.4	823.6	824.7	868.3	930.5	973.0	1141.4	1108.5	920.5
22.5°	926.8	928.3	909.4	878.0	868.7	890.2	947.5	980.1	1165.8	1168.8	930.5
25°	1011.9	1006.0	1002.3	957.9	929.8	948.3	986.0	1004.9	1181.0	1220.6	959.0
27.5°	1129.9	1118.1	1095.5	1055.9	1035.2	1008.9	1035.9	1067.0	1224.3	1293.1	990.1
30°	1304.2	1293.8	1249.8	1198.7	1144.4	1118.5	1127.0	1144.0	1302.3	1377.1	1031.1
32.5°	1566.5	1544.7	1481.0	1383.7	1309.7	1238.3	1236.1	1254.2	1372.3	1493.2	1080.0
35°	1855.5	1848.8	1755.2	1654.9	1511.7	1401.5	1403.3	1413.0	1506.2	1645.7	1144.0
37.5°	2047.5	2084.1	2024.5	1916.9	1796.6	1639.0	1599.1	1602.4	1690.1	1826.2	1259.4
40°	2195.8	2164.8	2171.8	2146.6	2064.5	1957.2	1868.8	1851.4	1902.8	2026.0	1374.1
42.5°	2131.1	2132.6	2175.9	2235.4	2255.8	2248.0	2157.7	2124.8	2084.8	2189.5	1483.3
45°	1948.3	1986.4	2042.7	2200.3	2338.6	2468.5	2450.8	2396.0	2210.6	2319.0	1546.2
47.5°	1656.8	1655.3	1747.4	1952.4	2259.8	2564.0	2644.6	2606.1	2299.8	2304.6	1533.2
48°	1549.1	1575.7	1670.8	1912.1	2209.9	2549.9	2662.0	2613.5	2284.6	2285.4	1522.1
50°	1145.1	1140.3	1258.7	1554.7	1973.8	2396.0	2588.8	2626.5	2284.3	2188.1	1444.4
52.5°	604.9	625.6	711.8	977.5	1395.6	1960.9	2283.5	2342.3	2203.6	2029.0	1332.7
55°	257.1	232.3	298.6	441.4	785.1	1310.1	1675.3	1806.2	1863.2	1795.5	1165.8
57.5°	91.8	100.3	115.4	166.1	330.0	717.0	998.9	1100.7	1290.9	1317.5	794.3
60°	58.8	59.9	64.7	76.2	123.9	276.4	473.9	555.0	641.2	661.9	370.7
62.5°	45.5	45.9	48.1	49.9	58.8	107.3	178.0	210.9	219.0	188.3	97.3
65°	38.1	38.5	39.2	39.2	41.8	50.3	62.2	68.4	66.6	65.9	55.1
67.5°	29.2	30.0	31.4	31.4	32.9	30.7	34.4	36.6	41.4	50.3	47.0
70°	22.9	23.3	24.4	25.2	25.2	22.2	24.8	27.0	30.3	37.4	37.0
72.5°	17.8	18.5	19.2	19.2	18.1	15.2	17.8	19.6	21.8	25.9	25.2
75°	13.7	13.7	14.1	11.5	8.9	7.8	10.7	12.9	16.3	17.0	14.1
77.5°	3.7	4.1	3.7	3.3	3.7	5.5	7.0	8.1	10.4	10.4	9.2
80°	0.0	0.4	1.1	2.2	3.7	5.2	6.3	7.0	8.1	8.9	8.5
82.5°	0.0	0.4	1.1	2.2	3.3	4.1	5.5	5.9	6.7	7.8	7.8
85°	0.0	0.4	0.7	1.5	2.2	2.6	2.6	2.2	2.2	1.8	1.5
87.5°	0.0	0.0	0.4	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1
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°	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9
2.5°	736.6	725.2	707.8	680.4	654.1	637.1	620.8	602.7	592.7	592.0	586.4
5°	745.5	719.6	678.2	631.2	580.9	537.6	493.9	465.4	439.9	425.8	423.3
7.5°	750.3	716.7	649.7	570.9	485.0	414.4	365.5	329.7	315.6	305.2	304.9
10°	760.3	711.5	607.1	491.0	384.8	313.4	279.7	263.4	255.7	252.7	248.3
12.5°	767.7	701.9	563.5	408.8	304.1	259.7	244.9	241.2	241.6	243.1	241.2
15°	778.1	693.3	504.7	335.6	255.3	233.8	233.8	234.6	239.7	240.5	240.1
17.5°	777.3	676.7	444.0	276.4	225.7	222.7	223.8	230.9	234.2	235.3	232.7
20°	786.2	661.2	381.5	236.0	209.0	213.5	220.9	222.7	226.8	227.5	224.6
22.5°	783.6	622.3	323.4	204.2	196.5	205.0	212.4	214.6	213.5	211.3	210.9
25°	778.8	589.0	270.1	183.1	187.2	196.5	203.5	199.4	197.2	197.6	197.9
27.5°	770.3	546.8	226.1	168.3	174.6	188.3	188.0	186.5	188.7	186.8	188.7
30°	768.8	504.7	189.8	155.0	165.4	175.4	176.1	178.7	181.3	178.0	181.3
32.5°	771.0	458.4	163.9	146.9	159.8	160.2	168.3	170.9	169.1	161.7	162.4
35°	788.1	422.9	145.0	142.4	151.0	151.3	159.1	155.8	147.6	143.2	145.8
37.5°	823.9	393.3	136.2	138.4	139.1	143.9	144.3	137.6	138.4	138.0	139.5
40°	869.8	370.7	129.9	134.7	133.9	137.3	123.9	127.6	131.0	132.1	132.8
42.5°	901.3	354.4	125.8	128.8	127.3	121.4	114.0	117.7	120.2	124.3	125.1
45°	915.3	341.5	121.0	118.4	118.4	107.7	104.7	105.4	111.4	115.8	115.1
47.5°	892.4	328.9	112.5	104.7	107.3	98.4	95.1	95.1	101.4	106.9	105.8
48°	883.5	323.7	112.8	101.7	103.6	96.9	93.6	92.9	99.9	105.1	105.1
50°	839.5	304.5	103.2	93.6	89.9	89.2	86.9	87.7	92.1	96.9	96.9
52.5°	753.7	263.1	87.3	80.3	73.6	78.1	79.2	77.7	79.9	84.4	84.0
55°	629.0	202.0	69.9	66.6	61.4	66.2	68.4	66.6	64.4	67.7	67.7
57.5°	402.9	108.8	55.9	56.6	51.4	56.2	58.1	53.6	49.6	52.2	51.8
60°	181.7	65.1	45.9	44.8	41.4	47.0	49.9	44.8	39.2	41.1	42.9
62.5°	68.1	46.2	34.8	34.0	33.3	38.5	40.0	35.9	30.3	31.4	31.8
65°	49.9	40.7	27.7	25.2	26.6	30.3	29.6	25.5	21.8	21.8	22.6
67.5°	42.5	35.5	22.6	19.6	19.6	20.0	18.5	16.3	15.2	15.9	16.6
70°	33.3	28.1	17.8	15.2	13.7	12.2	10.7	10.4	9.2	10.4	10.0
72.5°	21.5	18.9	13.7	11.5	10.4	8.5	7.0	6.7	5.5	5.2	5.2
75°	11.5	11.5	10.7	9.2	8.1	6.7	5.5	4.4	3.0	2.2	2.2
77.5°	8.1	8.9	9.6	8.9	7.4	5.5	4.4	3.0	1.5	0.7	0.7
80°	7.8	8.9	9.6	8.5	7.4	5.5	4.1	2.2	1.1	0.4	0.4
82.5°	7.0	8.1	8.9	7.8	6.7	4.8	3.7	2.2	1.1	0.4	0.4
85°	1.5	1.8	2.2	2.2	2.6	3.3	2.6	1.8	0.7	0.4	0.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.4	0.4	0.4
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)