

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: P526187

Luminaire Tested: **GALN-SA1A-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526187
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-SA1A-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3060 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

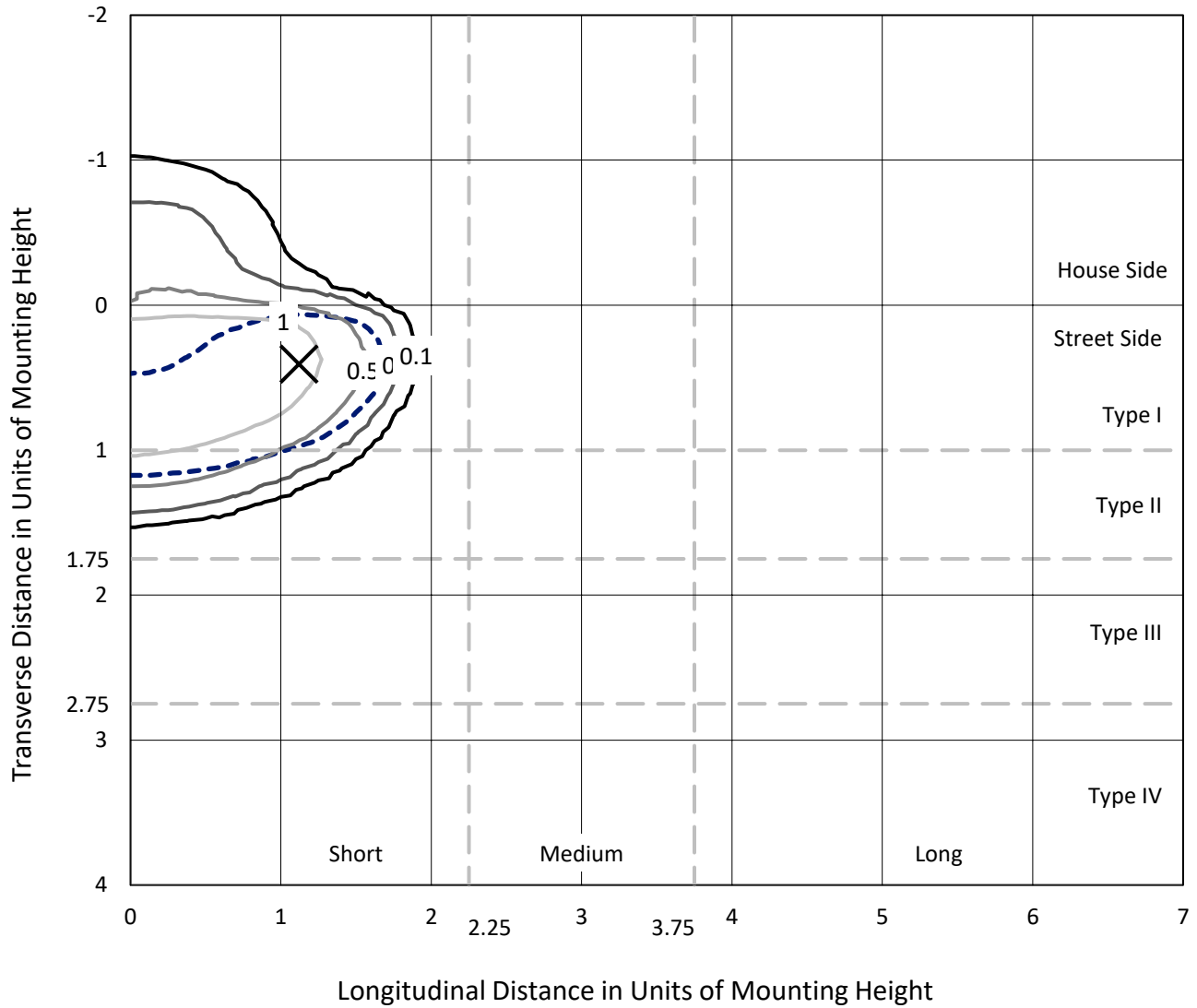
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

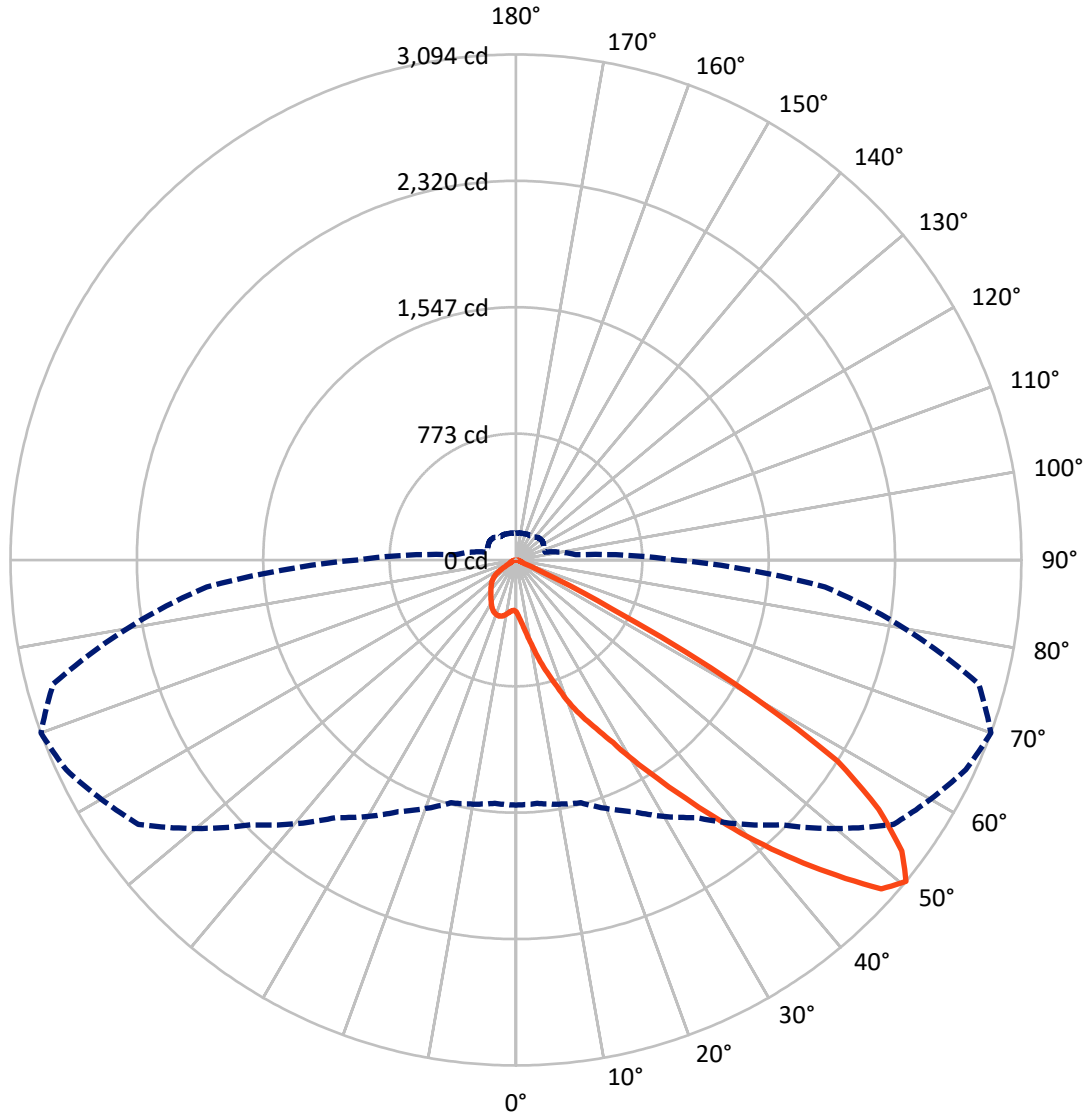
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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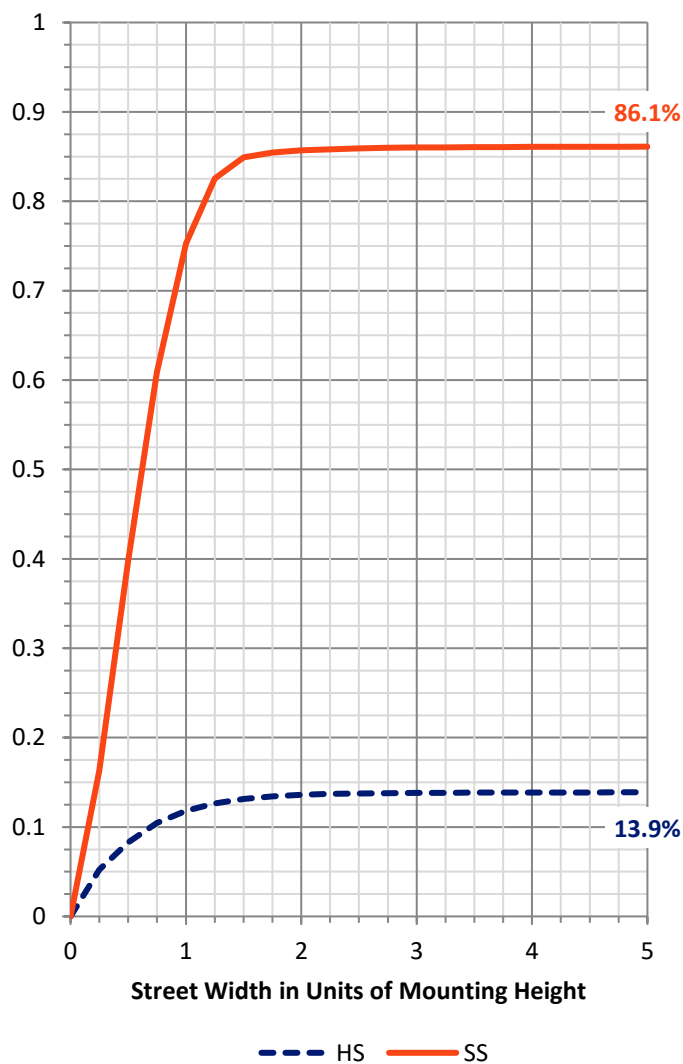
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.4	0.0	427.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2632.6	0.0	2632.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	3060.0	0.0	3060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.3
10°-20°	178.3	5.8
20°-30°	374.0	12.2
30°-40°	644.7	21.1
40°-50°	942.2	30.8
50°-60°	733.8	24.0
60°-70°	124.3	4.1
70°-80°	17.1	0.6
80°-90°	4.4	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°	3060.0	100.0
0°-180°	3060.0	100.0

Coefficient of Utilization



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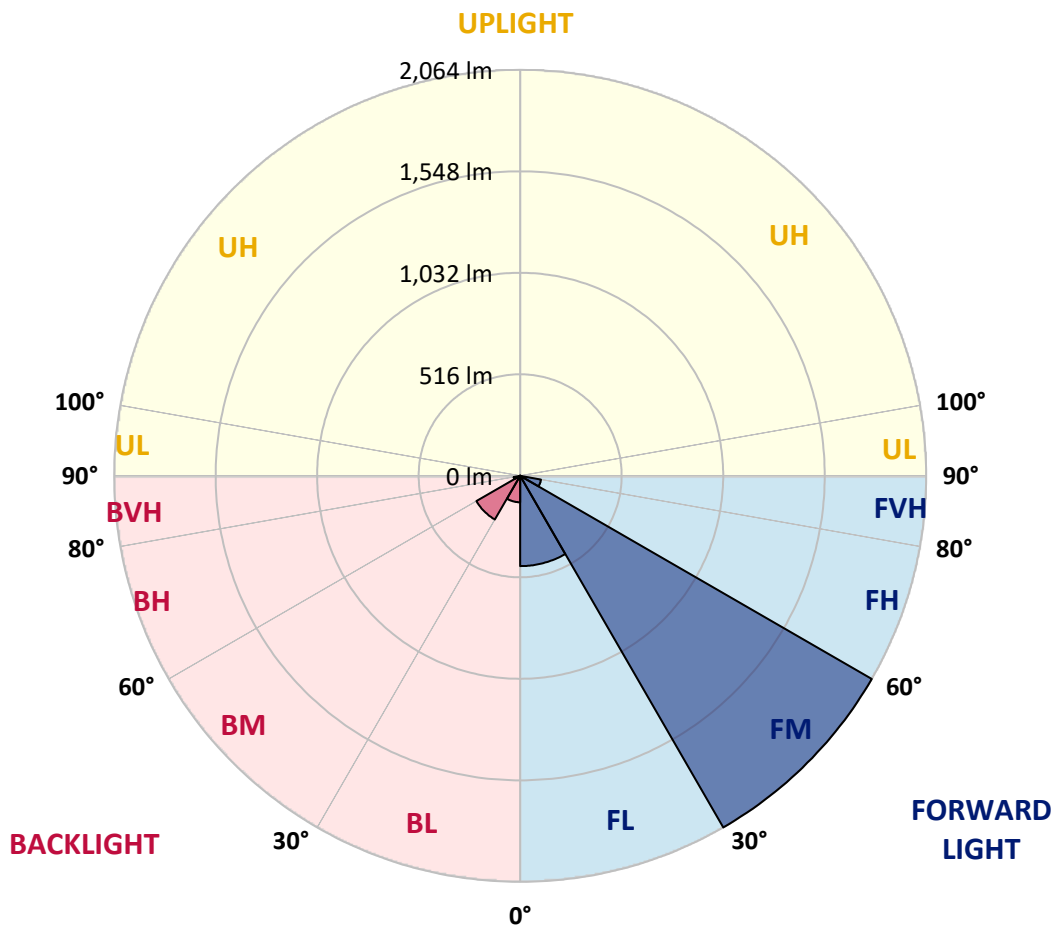
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.0	15.0			
FM (30°-60°)	2063.9	67.4			
FH (60°-80°)	107.6	3.5			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	134.5	4.4	B1/500		
BM (30°-60°)	256.7	8.4	B1/1000		
BH (60°-80°)	33.8	1.1	B0/110		G0/110
BVH (80°-90°)	2.4	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	415.1	412.0	405.5	393.4	388.4	376.3	369.3	355.7	347.1	337.6	327.0
5°	584.6	569.0	559.5	545.9	506.1	481.5	440.7	406.0	389.9	372.3	348.1
7.5°	759.7	749.6	736.5	707.4	680.2	628.9	558.9	482.5	449.8	419.6	371.8
10°	904.6	876.4	874.9	853.3	823.6	762.2	678.2	583.1	524.7	480.5	405.5
12.5°	1005.7	980.0	991.6	989.1	961.4	905.1	808.0	682.2	621.3	552.4	440.2
15°	1097.8	1087.2	1083.7	1080.7	1069.6	1027.8	940.8	803.0	714.9	631.9	479.5
17.5°	1187.8	1160.7	1173.7	1176.3	1175.3	1137.5	1056.0	917.7	814.0	715.9	520.7
20°	1267.8	1270.3	1252.7	1249.2	1246.2	1244.7	1165.2	1031.4	935.8	804.0	574.5
22.5°	1370.5	1352.8	1368.4	1358.4	1338.8	1326.7	1265.8	1132.0	1041.4	910.1	629.4
25°	1491.7	1505.8	1469.1	1465.0	1443.4	1401.6	1346.8	1244.7	1143.1	1008.7	688.7
27.5°	1641.1	1616.5	1606.9	1584.8	1545.5	1527.9	1463.5	1360.9	1265.8	1112.4	746.1
30°	1769.4	1762.9	1715.1	1688.9	1654.7	1654.2	1564.2	1518.4	1425.8	1274.9	825.1
32.5°	1874.1	1845.4	1827.8	1809.7	1782.0	1789.5	1713.6	1689.4	1596.4	1425.8	918.2
35°	1944.0	1923.4	1912.8	1885.1	1877.1	1910.8	1879.1	1869.0	1792.6	1638.1	1027.3
37.5°	1966.1	1972.7	1970.7	1935.9	1953.1	2044.1	2084.9	2058.7	2018.5	1862.0	1145.6
40°	1985.8	1990.3	1980.2	2021.0	2069.8	2173.4	2320.8	2277.6	2262.5	2088.9	1310.1
42.5°	1996.8	1993.3	1993.3	2063.7	2137.7	2346.0	2548.7	2520.0	2508.5	2330.4	1500.3
45°	1949.0	1914.8	1951.5	2047.1	2196.1	2431.0	2730.9	2770.6	2754.0	2617.7	1722.6
47.5°	1770.4	1791.6	1812.2	1940.0	2125.1	2404.8	2842.5	2977.9	3008.6	2859.1	1868.5
50°	1500.3	1495.7	1538.5	1699.5	1924.4	2292.1	2820.9	3037.7	3093.6	2931.6	1899.2
52.5°	1091.2	1124.4	1170.7	1330.7	1597.4	2000.3	2541.7	2883.3	2957.8	2842.5	1879.1
55°	635.4	598.7	702.8	838.2	1089.7	1508.8	2148.8	2555.8	2693.6	2680.5	1777.5
57.5°	254.6	246.5	282.2	380.3	568.5	935.3	1562.6	2100.0	2320.8	2455.1	1562.1
60°	111.7	109.2	128.3	155.0	232.4	431.2	854.8	1306.1	1536.5	1715.6	1075.1
62.5°	80.5	79.5	89.0	98.6	122.8	187.7	359.2	526.2	656.0	792.4	481.5
65°	64.9	67.4	74.0	79.0	90.6	104.1	126.8	146.4	179.6	186.1	106.2
67.5°	52.8	54.8	60.9	66.4	68.4	56.3	58.4	51.3	51.3	45.8	36.7
70°	38.7	39.2	46.3	52.8	42.3	22.6	39.7	39.7	35.7	34.2	31.2
72.5°	28.7	29.2	34.7	32.7	16.6	14.1	29.2	32.2	29.2	27.7	25.2
75°	21.1	21.6	18.1	7.5	7.0	9.1	17.1	22.1	21.1	20.6	19.1
77.5°	4.0	3.0	2.5	3.5	5.0	7.5	11.1	13.6	14.1	15.1	14.1
80°	0.5	0.5	1.5	3.0	5.5	8.0	11.6	13.1	13.6	14.1	13.1
82.5°	0.0	0.5	1.5	3.0	5.5	7.5	10.1	11.6	12.6	13.1	12.6
85°	0.0	0.5	1.0	2.5	4.5	5.5	5.0	3.5	3.0	3.5	2.5
87.5°	0.0	0.0	0.5	0.5	1.0	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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	321.0	319.0	311.9	304.4	297.8	300.9	297.8	295.3	296.3	295.3	294.3
5°	338.6	329.5	314.4	307.9	302.4	301.9	300.4	299.9	300.4	300.4	295.8
7.5°	355.2	340.6	324.5	317.5	310.9	311.4	307.9	307.9	307.4	304.9	303.9
10°	380.3	360.7	340.1	327.5	319.5	318.0	314.4	310.9	310.9	310.9	305.9
12.5°	408.0	383.4	355.2	340.6	331.0	323.5	318.0	317.0	311.4	310.4	307.9
15°	432.2	401.0	365.3	345.1	333.1	323.0	314.4	308.9	306.4	304.9	302.9
17.5°	455.8	416.1	370.8	345.1	332.0	320.5	311.4	306.4	300.4	301.4	297.3
20°	487.5	432.2	372.3	338.6	322.5	311.4	299.3	296.8	293.3	290.3	291.3
22.5°	518.2	443.7	367.8	330.5	307.4	294.3	288.3	285.3	283.8	281.2	277.7
25°	545.9	456.3	360.7	315.9	291.3	281.7	276.2	275.7	272.2	272.2	265.6
27.5°	574.0	460.8	348.7	298.8	277.2	271.7	269.2	268.2	266.6	263.1	258.6
30°	606.2	462.4	331.0	281.2	264.6	258.6	262.1	264.6	258.1	251.6	253.6
32.5°	632.9	458.8	309.9	264.6	255.6	252.6	259.6	262.1	254.6	247.5	244.0
35°	665.1	450.3	289.3	251.6	246.5	252.6	258.6	258.6	243.5	234.9	232.9
37.5°	713.9	440.7	270.2	240.5	237.0	249.5	257.6	252.1	228.4	217.8	215.3
40°	766.2	434.7	251.6	229.4	231.9	244.5	249.0	231.9	207.8	201.2	199.2
42.5°	842.2	422.6	234.9	219.9	227.4	237.5	237.5	206.8	197.7	194.2	193.7
45°	936.8	414.1	220.4	211.8	220.9	223.4	215.3	193.7	187.2	186.1	186.7
47.5°	983.1	397.5	205.3	202.2	208.8	209.3	188.2	183.1	177.6	176.1	175.1
50°	976.0	367.8	185.6	189.7	198.7	193.7	171.6	172.6	167.5	167.0	164.5
52.5°	926.7	321.0	166.0	175.6	185.6	171.1	158.0	157.0	157.0	150.4	147.9
55°	821.6	258.6	142.4	154.5	166.5	143.9	140.4	139.4	136.8	130.8	129.3
57.5°	650.5	189.7	107.2	120.2	141.4	122.3	121.8	117.2	110.7	106.2	106.2
60°	386.9	109.2	67.4	73.5	93.6	99.1	110.2	108.2	97.1	90.1	88.0
62.5°	176.6	56.3	42.8	43.8	50.3	64.4	86.5	100.1	84.5	72.4	71.4
65°	59.4	41.8	35.2	33.7	34.7	38.7	51.8	70.9	67.4	55.8	53.8
67.5°	36.2	37.2	33.2	30.7	30.7	30.2	29.7	32.2	39.7	38.7	39.2
70°	31.2	34.2	30.7	27.7	26.7	25.2	21.1	17.6	15.1	17.6	18.6
72.5°	25.2	27.2	26.2	23.6	21.1	19.1	15.1	11.6	8.6	7.5	7.5
75°	18.6	20.1	21.1	18.1	16.1	13.6	11.1	7.5	4.5	3.0	3.0
77.5°	13.6	15.1	15.6	14.1	12.1	9.6	7.0	5.0	2.5	1.0	1.0
80°	11.6	13.6	15.1	14.1	12.6	9.1	6.5	3.5	2.0	0.5	0.5
82.5°	11.1	13.6	15.1	13.6	12.1	8.6	6.5	4.0	1.5	0.5	0.5
85°	2.5	3.5	4.5	5.5	6.5	6.5	5.0	3.0	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	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)