

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: P526525

Luminaire Tested: **GALN-SA1C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526525
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-SA1C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 3935 lumens
Efficiency: N/A
Efficacy: 69.0 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

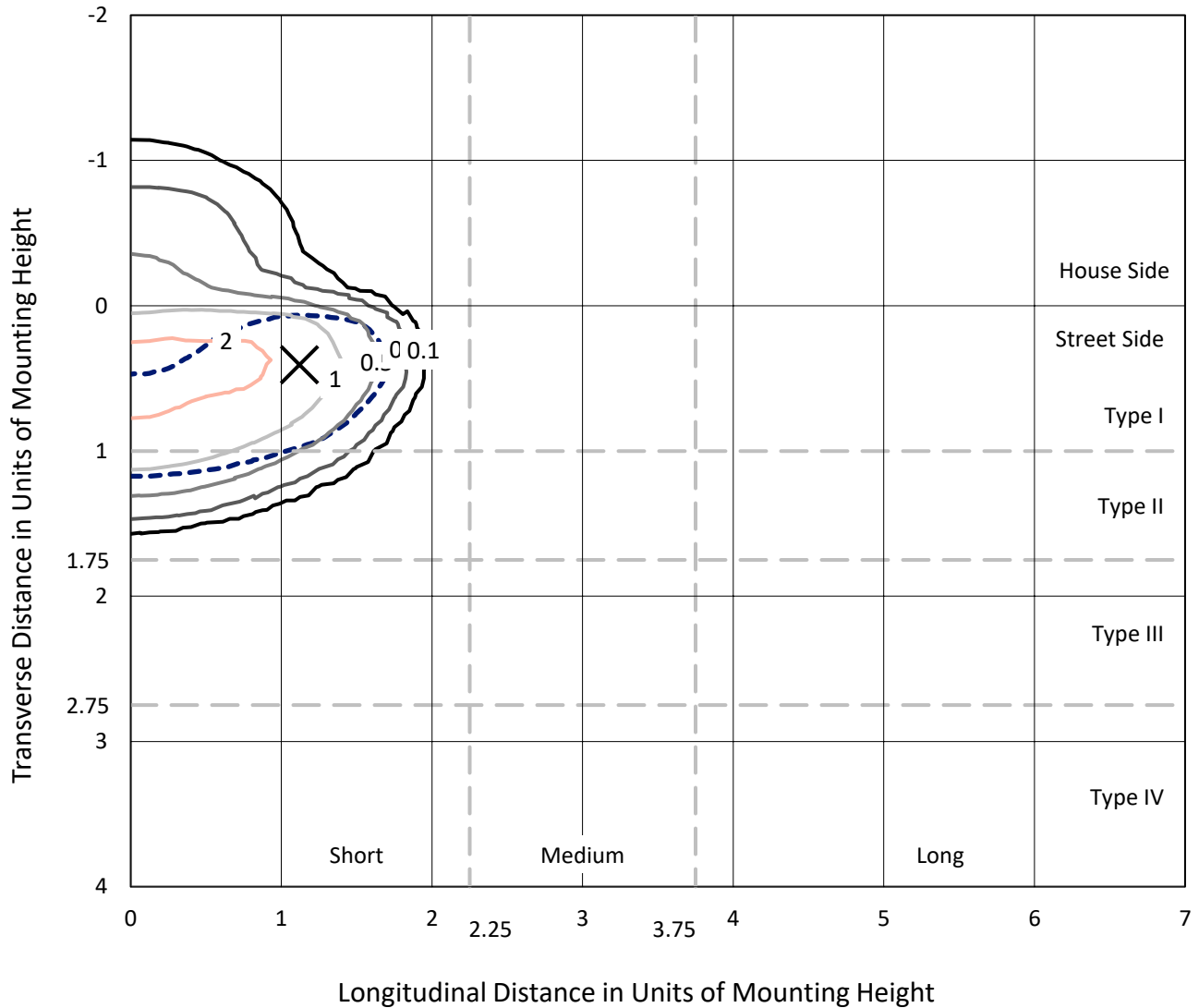
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

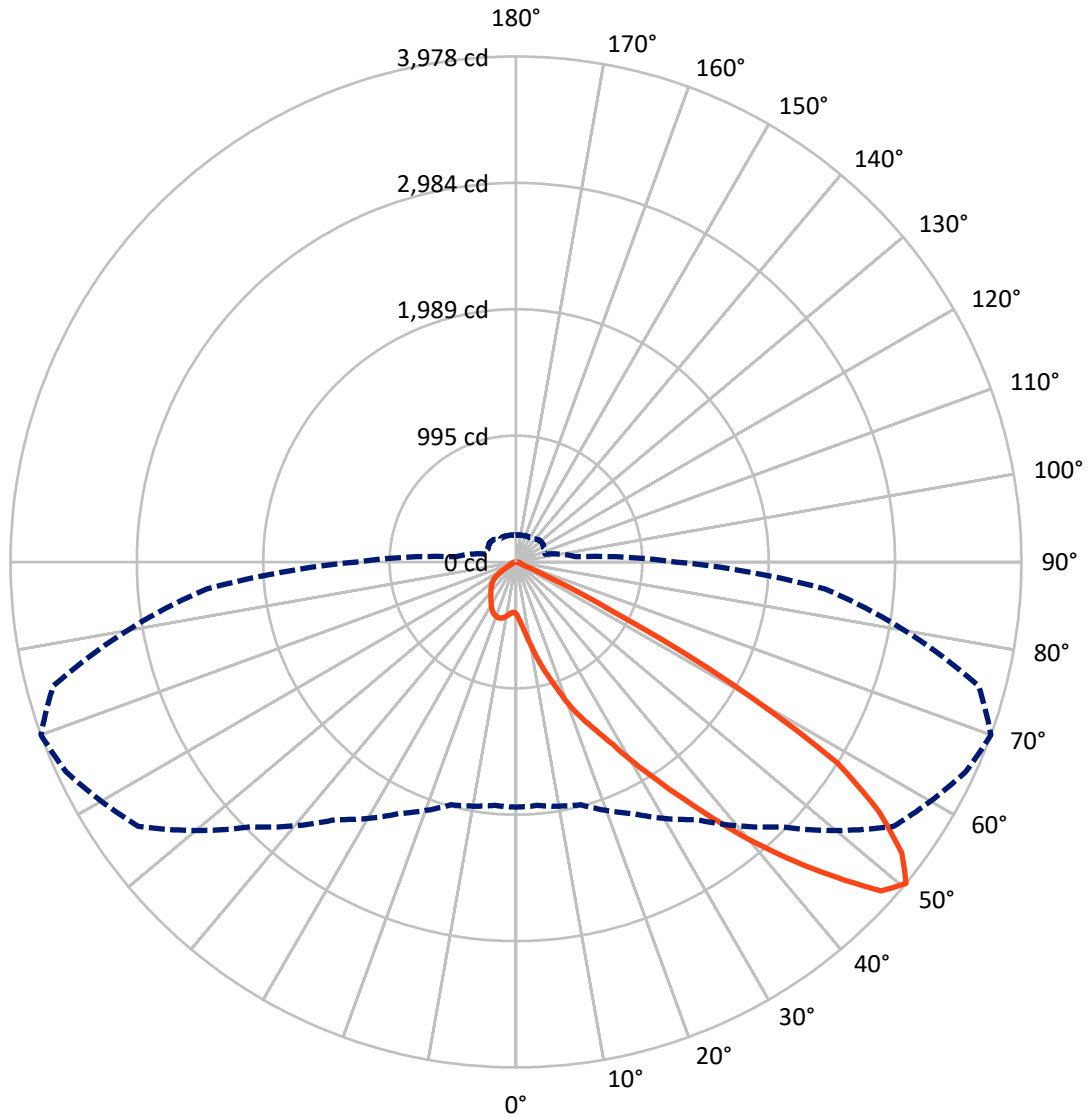
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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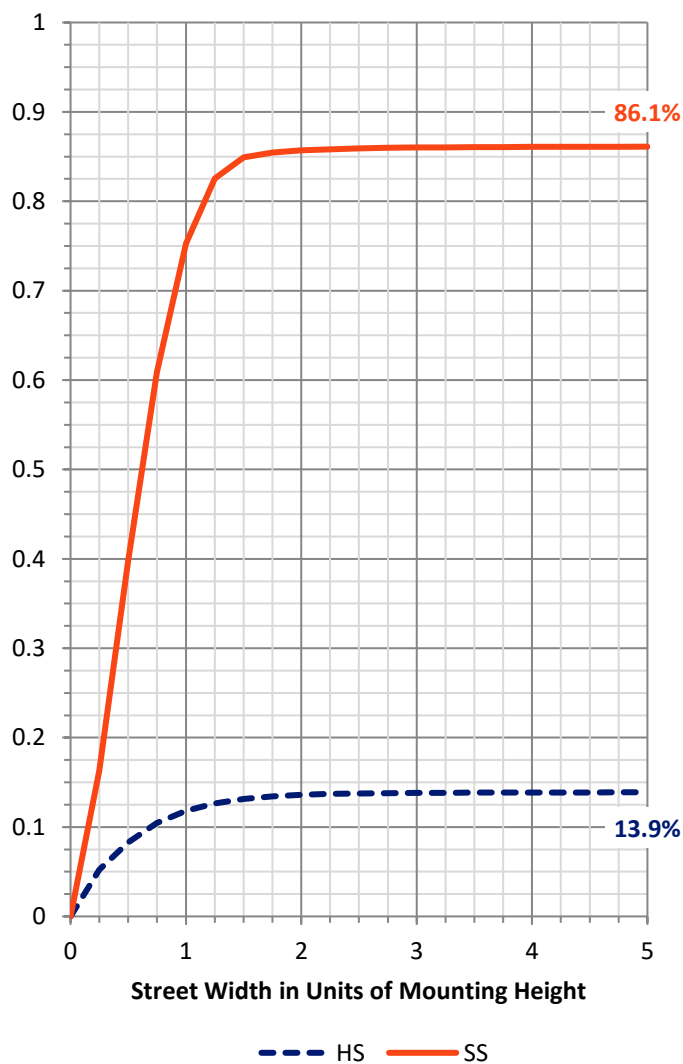
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.5	0.0	549.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3385.4	0.0	3385.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	3935.0	0.0	3935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.3
10°-20°	229.3	5.8
20°-30°	481.0	12.2
30°-40°	829.0	21.1
40°-50°	1211.6	30.8
50°-60°	943.6	24.0
60°-70°	159.9	4.1
70°-80°	22.0	0.6
80°-90°	5.7	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°	3935.0	100.0
0°-180°	3935.0	100.0

Coefficient of Utilization



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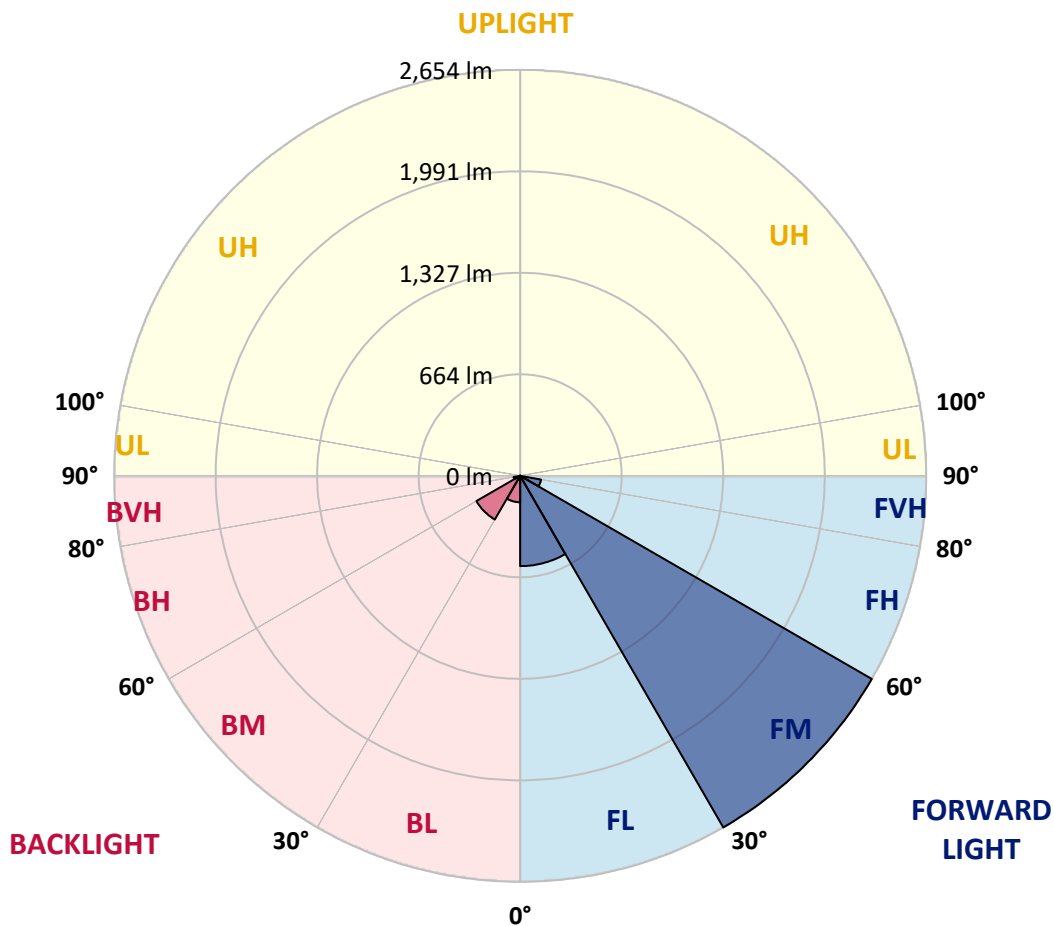
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.3	15.0			
FM (30°-60°)	2654.1	67.4			
FH (60°-80°)	138.4	3.5			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	172.9	4.4	B1/500		
BM (30°-60°)	330.1	8.4	B1/1000		
BH (60°-80°)	43.4	1.1	B0/110		G0/110
BVH (80°-90°)	3.1	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°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6
2.5°	533.7	529.9	521.5	505.9	499.5	483.9	474.9	457.4	446.4	434.1	420.5
5°	751.8	731.7	719.4	702.0	650.8	619.1	566.7	522.1	501.4	478.8	447.7
7.5°	976.9	964.0	947.2	909.6	874.7	808.7	718.8	620.4	578.4	539.6	478.1
10°	1163.2	1127.0	1125.1	1097.3	1059.1	980.2	872.1	749.8	674.8	617.9	521.5
12.5°	1293.3	1260.3	1275.2	1271.9	1236.4	1163.9	1039.0	877.3	799.0	710.4	566.1
15°	1411.7	1398.1	1393.6	1389.7	1375.4	1321.8	1209.8	1032.6	919.3	812.6	616.6
17.5°	1527.5	1492.6	1509.4	1512.6	1511.3	1462.8	1358.0	1180.1	1046.8	920.6	669.6
20°	1630.4	1633.6	1610.9	1606.4	1602.5	1600.6	1498.4	1326.3	1203.4	1033.9	738.8
22.5°	1762.3	1739.7	1759.7	1746.8	1721.6	1706.0	1627.8	1455.7	1339.2	1170.4	809.4
25°	1918.3	1936.4	1889.1	1884.0	1856.1	1802.4	1731.9	1600.6	1469.9	1297.2	885.7
27.5°	2110.4	2078.7	2066.4	2037.9	1987.5	1964.8	1882.0	1750.0	1627.8	1430.4	959.5
30°	2275.4	2267.0	2205.5	2171.9	2127.9	2127.2	2011.4	1952.5	1833.5	1639.4	1061.0
32.5°	2409.9	2373.1	2350.4	2327.1	2291.6	2301.3	2203.6	2172.5	2052.8	1833.5	1180.7
35°	2499.9	2473.4	2459.8	2424.2	2413.8	2457.2	2416.4	2403.5	2305.1	2106.5	1321.1
37.5°	2528.3	2536.8	2534.2	2489.5	2511.5	2628.6	2681.0	2647.4	2595.6	2394.4	1473.1
40°	2553.6	2559.4	2546.5	2598.9	2661.6	2794.9	2984.5	2928.8	2909.4	2686.2	1684.7
42.5°	2567.8	2563.3	2563.3	2653.9	2749.0	3016.8	3277.5	3240.7	3225.8	2996.7	1929.3
45°	2506.3	2462.4	2509.6	2632.5	2824.0	3126.1	3511.7	3562.8	3541.5	3366.2	2215.2
47.5°	2276.7	2303.8	2330.4	2494.7	2732.8	3092.5	3655.4	3829.4	3868.9	3676.7	2402.8
50°	1929.3	1923.4	1978.4	2185.5	2474.6	2947.6	3627.5	3906.4	3978.2	3769.9	2442.3
52.5°	1403.3	1446.0	1505.5	1711.2	2054.1	2572.3	3268.5	3707.8	3803.5	3655.4	2416.4
55°	817.1	769.9	903.8	1077.8	1401.3	1940.3	2763.2	3286.6	3463.9	3447.0	2285.7
57.5°	327.4	317.0	362.9	489.1	731.1	1202.7	2009.5	2700.4	2984.5	3157.2	2008.8
60°	143.6	140.4	165.0	199.3	298.9	554.4	1099.2	1679.5	1975.8	2206.2	1382.6
62.5°	103.5	102.2	114.5	126.8	157.9	241.3	461.9	676.7	843.6	1019.0	619.1
65°	83.5	86.7	95.1	101.6	116.5	133.9	163.0	188.3	231.0	239.4	136.5
67.5°	67.9	70.5	78.3	85.4	88.0	72.5	75.0	66.0	66.0	58.9	47.2
70°	49.8	50.5	59.5	67.9	54.3	29.1	51.1	51.1	45.9	44.0	40.1
72.5°	36.9	37.5	44.6	42.1	21.3	18.1	37.5	41.4	37.5	35.6	32.3
75°	27.2	27.8	23.3	9.7	9.1	11.6	22.0	28.5	27.2	26.5	24.6
77.5°	5.2	3.9	3.2	4.5	6.5	9.7	14.2	17.5	18.1	19.4	18.1
80°	0.6	0.6	1.9	3.9	7.1	10.4	14.9	16.8	17.5	18.1	16.8
82.5°	0.0	0.6	1.9	3.9	7.1	9.7	12.9	14.9	16.2	16.8	16.2
85°	0.0	0.6	1.3	3.2	5.8	7.1	6.5	4.5	3.9	4.5	3.2
87.5°	0.0	0.0	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6
2.5°	412.8	410.2	401.1	391.4	383.0	386.9	383.0	379.8	381.1	379.8	378.5
5°	435.4	423.8	404.4	395.9	388.8	388.2	386.2	385.6	386.2	386.2	380.4
7.5°	456.8	438.0	417.3	408.2	399.8	400.5	395.9	395.9	395.3	392.1	390.8
10°	489.1	463.9	437.3	421.2	410.8	408.9	404.4	399.8	399.8	399.8	393.4
12.5°	524.7	493.0	456.8	438.0	425.7	416.0	408.9	407.6	400.5	399.2	395.9
15°	555.7	515.6	469.7	443.8	428.3	415.4	404.4	397.2	394.0	392.1	389.5
17.5°	586.2	535.0	476.8	443.8	427.0	412.1	400.5	394.0	386.2	387.5	382.4
20°	626.9	555.7	478.8	435.4	414.7	400.5	384.9	381.7	377.2	373.3	374.6
22.5°	666.4	570.6	472.9	425.1	395.3	378.5	370.7	366.8	364.9	361.7	357.1
25°	702.0	586.8	463.9	406.3	374.6	362.3	355.2	354.5	350.0	350.0	341.6
27.5°	738.2	592.6	448.3	384.3	356.5	349.4	346.1	344.8	342.9	338.4	332.5
30°	779.6	594.6	425.7	361.7	340.3	332.5	337.1	340.3	331.9	323.5	326.1
32.5°	813.9	590.0	398.5	340.3	328.7	324.8	333.8	337.1	327.4	318.3	313.8
35°	855.3	579.0	372.0	323.5	317.0	324.8	332.5	332.5	313.1	302.1	299.5
37.5°	918.0	566.7	347.4	309.2	304.7	320.9	331.2	324.1	293.7	280.1	276.9
40°	985.3	559.0	323.5	295.0	298.3	314.4	320.2	298.3	267.2	258.8	256.2
42.5°	1083.0	543.5	302.1	282.7	292.4	305.4	305.4	265.9	254.3	249.7	249.1
45°	1204.7	532.5	283.4	272.4	284.0	287.3	276.9	249.1	240.7	239.4	240.0
47.5°	1264.2	511.1	264.0	260.1	268.5	269.1	242.0	235.5	228.4	226.4	225.1
50°	1255.1	472.9	238.7	243.9	255.6	249.1	220.6	221.9	215.4	214.8	211.6
52.5°	1191.7	412.8	213.5	225.8	238.7	220.0	203.1	201.9	201.9	193.4	190.2
55°	1056.5	332.5	183.1	198.6	214.1	185.0	180.5	179.2	176.0	168.2	166.3
57.5°	836.5	243.9	137.8	154.6	181.8	157.2	156.6	150.7	142.3	136.5	136.5
60°	497.5	140.4	86.7	94.5	120.3	127.5	141.7	139.1	124.9	115.8	113.2
62.5°	227.1	72.5	55.0	56.3	64.7	82.8	111.3	128.7	108.7	93.2	91.9
65°	76.3	53.7	45.3	43.3	44.6	49.8	66.6	91.2	86.7	71.8	69.2
67.5°	46.6	47.9	42.7	39.5	39.5	38.8	38.2	41.4	51.1	49.8	50.5
70°	40.1	44.0	39.5	35.6	34.3	32.3	27.2	22.6	19.4	22.6	23.9
72.5°	32.3	34.9	33.6	30.4	27.2	24.6	19.4	14.9	11.0	9.7	9.7
75°	23.9	25.9	27.2	23.3	20.7	17.5	14.2	9.7	5.8	3.9	3.9
77.5°	17.5	19.4	20.1	18.1	15.5	12.3	9.1	6.5	3.2	1.3	1.3
80°	14.9	17.5	19.4	18.1	16.2	11.6	8.4	4.5	2.6	0.6	0.6
82.5°	14.2	17.5	19.4	17.5	15.5	11.0	8.4	5.2	1.9	0.6	0.6
85°	3.2	4.5	5.8	7.1	8.4	8.4	6.5	3.9	1.9	0.6	0.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	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)