

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: P526915

Luminaire Tested: **GALN-SA1D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526915
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-SA1D-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 3805 lumens
Efficiency: N/A
Efficacy: 58.5 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

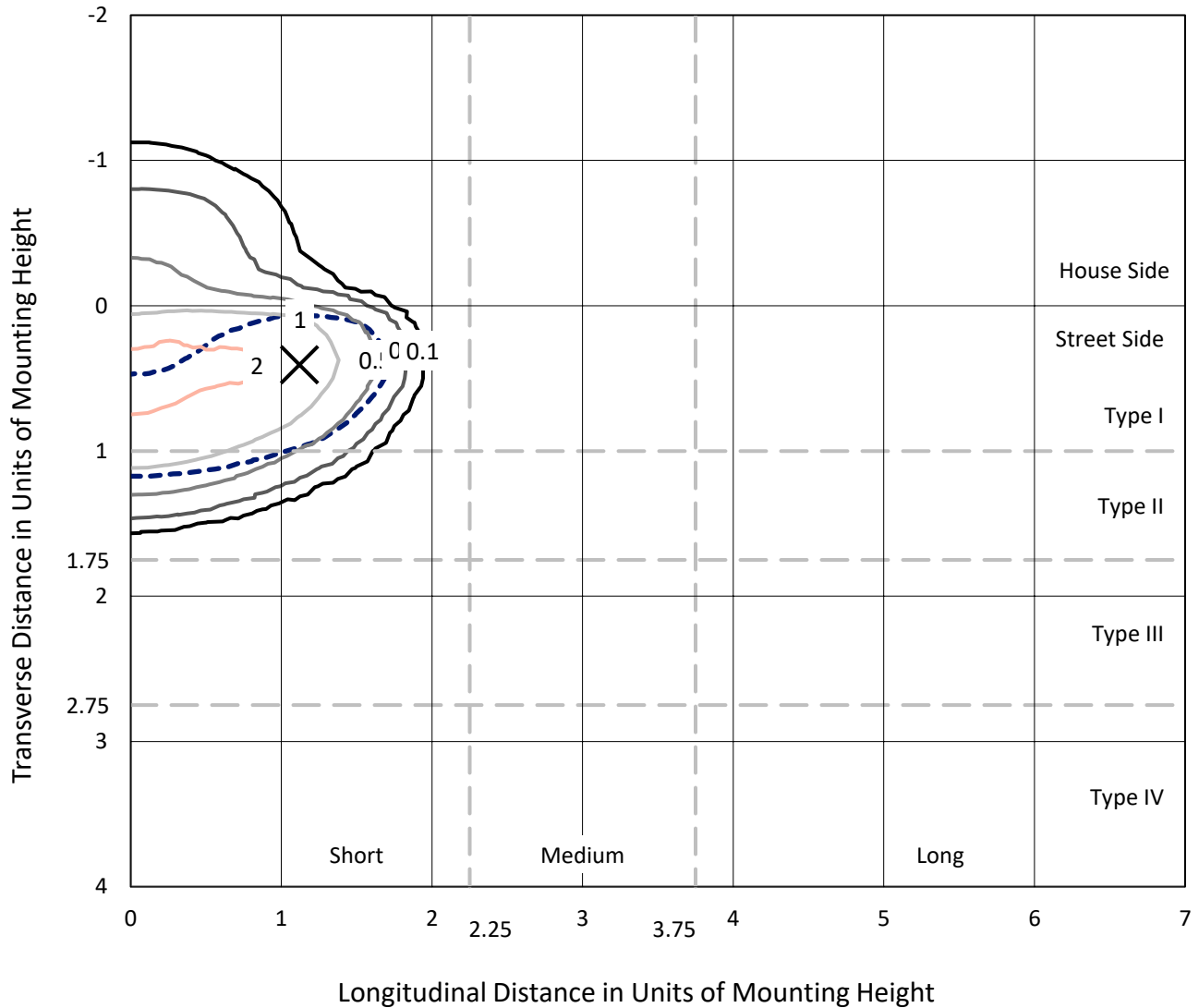
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

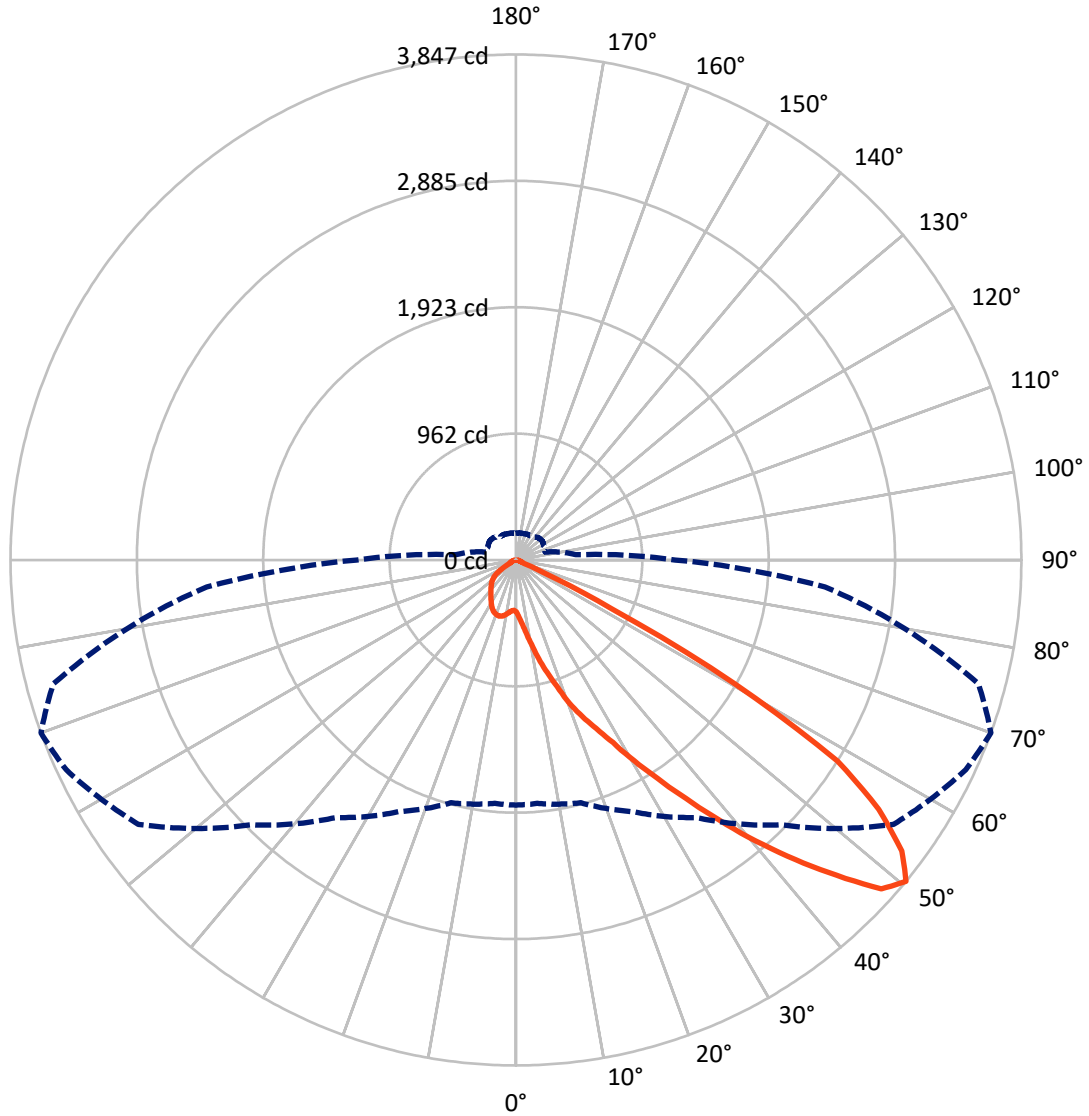
✕ Max cd
 - - - 1/2 Max cd



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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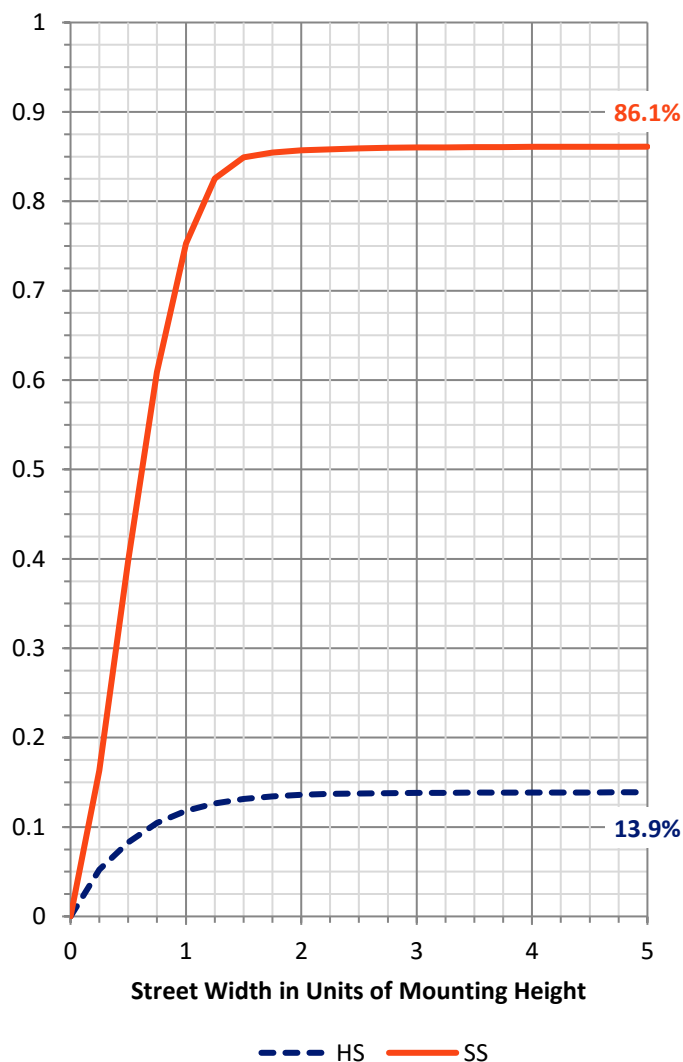
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.4	0.0	531.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3273.6	0.0	3273.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	3805.0	0.0	3805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	1.3
10°-20°	221.7	5.8
20°-30°	465.1	12.2
30°-40°	801.6	21.1
40°-50°	1171.6	30.8
50°-60°	912.5	24.0
60°-70°	154.6	4.1
70°-80°	21.2	0.6
80°-90°	5.5	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°	3805.0	100.0
0°-180°	3805.0	100.0

Coefficient of Utilization



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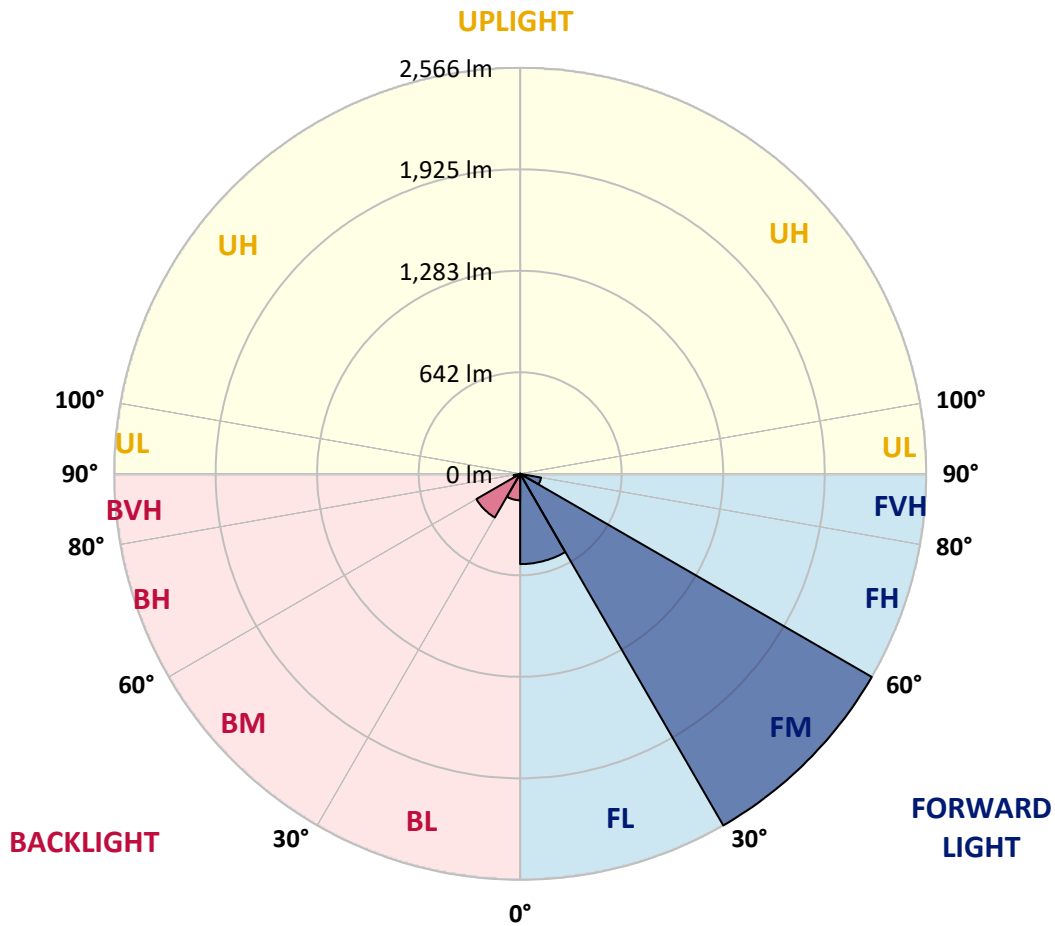
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.8	15.0			
FM (30°-60°)	2566.4	67.4			
FH (60°-80°)	133.9	3.5			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	167.2	4.4	B1/500		
BM (30°-60°)	319.2	8.4	B1/1000		
BH (60°-80°)	42.0	1.1	B0/110		G0/110
BVH (80°-90°)	3.0	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1
2.5°	516.1	512.4	504.2	489.2	483.0	467.9	459.2	442.3	431.7	419.8	406.6
5°	726.9	707.5	695.7	678.8	629.3	598.7	548.0	504.9	484.8	462.9	432.9
7.5°	944.6	932.1	915.9	879.6	845.8	782.0	695.0	599.9	559.3	521.7	462.3
10°	1124.8	1089.8	1087.9	1061.0	1024.1	947.8	843.3	725.1	652.5	597.4	504.2
12.5°	1250.6	1218.7	1233.0	1229.9	1195.5	1125.4	1004.7	848.3	772.6	686.9	547.4
15°	1365.0	1351.9	1347.5	1343.8	1330.0	1278.1	1169.9	998.4	889.0	785.7	596.2
17.5°	1477.0	1443.2	1459.5	1462.6	1461.4	1414.5	1313.1	1141.1	1012.2	890.2	647.5
20°	1576.5	1579.6	1557.7	1553.3	1549.6	1547.7	1448.9	1282.5	1163.6	999.7	714.4
22.5°	1704.1	1682.2	1701.6	1689.1	1664.7	1649.7	1574.0	1407.6	1295.0	1131.7	782.6
25°	1854.9	1872.4	1826.7	1821.7	1794.8	1742.9	1674.7	1547.7	1421.3	1254.3	856.4
27.5°	2040.7	2010.0	1998.1	1970.6	1921.8	1899.9	1819.8	1692.2	1574.0	1383.2	927.8
30°	2200.2	2192.1	2132.6	2100.1	2057.6	2056.9	1945.0	1888.0	1772.9	1585.3	1026.0
32.5°	2330.3	2294.7	2272.8	2250.3	2215.8	2225.2	2130.8	2100.7	1985.0	1772.9	1141.7
35°	2417.3	2391.6	2378.5	2344.1	2334.1	2376.0	2336.6	2324.1	2229.0	2036.9	1277.5
37.5°	2444.8	2452.9	2450.4	2407.3	2428.5	2541.8	2592.5	2559.9	2509.9	2315.3	1424.5
40°	2469.2	2474.8	2462.3	2513.0	2573.7	2702.6	2885.9	2832.1	2813.3	2597.5	1629.0
42.5°	2483.0	2478.6	2478.6	2566.2	2658.1	2917.1	3169.2	3133.6	3119.2	2897.7	1865.5
45°	2423.5	2381.0	2426.7	2545.5	2730.7	3022.9	3395.7	3445.1	3424.5	3255.0	2142.0
47.5°	2201.5	2227.7	2253.4	2412.3	2642.5	2990.3	3534.6	3702.9	3741.0	3555.2	2323.4
50°	1865.5	1859.9	1913.1	2113.3	2392.9	2850.2	3507.7	3777.3	3846.8	3645.3	2361.6
52.5°	1356.9	1398.2	1455.8	1654.7	1986.3	2487.4	3160.5	3585.3	3677.9	3534.6	2336.6
55°	790.1	744.5	874.0	1042.2	1355.0	1876.2	2671.9	3178.0	3349.4	3333.2	2210.2
57.5°	316.5	306.5	351.0	472.9	706.9	1163.0	1943.1	2611.2	2885.9	3052.9	1942.5
60°	138.9	135.8	159.5	192.7	289.0	536.1	1062.9	1624.0	1910.6	2133.3	1336.9
62.5°	100.1	98.8	110.7	122.6	152.6	233.3	446.7	654.4	815.8	985.3	598.7
65°	80.7	83.8	92.0	98.2	112.6	129.5	157.6	182.0	223.3	231.5	132.0
67.5°	65.7	68.2	75.7	82.6	85.1	70.1	72.6	63.8	63.8	56.9	45.7
70°	48.2	48.8	57.6	65.7	52.5	28.2	49.4	49.4	44.4	42.5	38.8
72.5°	35.7	36.3	43.2	40.7	20.6	17.5	36.3	40.0	36.3	34.4	31.3
75°	26.3	26.9	22.5	9.4	8.8	11.3	21.3	27.5	26.3	25.6	23.8
77.5°	5.0	3.8	3.1	4.4	6.3	9.4	13.8	16.9	17.5	18.8	17.5
80°	0.6	0.6	1.9	3.8	6.9	10.0	14.4	16.3	16.9	17.5	16.3
82.5°	0.0	0.6	1.9	3.8	6.9	9.4	12.5	14.4	15.6	16.3	15.6
85°	0.0	0.6	1.3	3.1	5.6	6.9	6.3	4.4	3.8	4.4	3.1
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°	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1
2.5°	399.1	396.6	387.9	378.5	370.4	374.1	370.4	367.2	368.5	367.2	366.0
5°	421.0	409.8	391.0	382.9	376.0	375.4	373.5	372.9	373.5	373.5	367.8
7.5°	441.7	423.5	403.5	394.7	386.6	387.2	382.9	382.9	382.2	379.1	377.9
10°	472.9	448.5	422.9	407.3	397.3	395.4	391.0	386.6	386.6	386.6	380.4
12.5°	507.4	476.7	441.7	423.5	411.6	402.3	395.4	394.1	387.2	386.0	382.9
15°	537.4	498.6	454.2	429.2	414.1	401.6	391.0	384.1	381.0	379.1	376.6
17.5°	566.8	517.4	461.1	429.2	412.9	398.5	387.2	381.0	373.5	374.7	369.7
20°	606.2	537.4	462.9	421.0	401.0	387.2	372.2	369.1	364.7	361.0	362.2
22.5°	644.4	551.8	457.3	411.0	382.2	366.0	358.5	354.7	352.8	349.7	345.3
25°	678.8	567.4	448.5	392.9	362.2	350.3	343.5	342.8	338.4	338.4	330.3
27.5°	713.8	573.0	433.5	371.6	344.7	337.8	334.7	333.4	331.6	327.2	321.6
30°	753.8	574.9	411.6	349.7	329.1	321.6	325.9	329.1	320.9	312.8	315.3
32.5°	787.0	570.5	385.4	329.1	317.8	314.0	322.8	325.9	316.5	307.8	303.4
35°	827.0	559.9	359.7	312.8	306.5	314.0	321.6	321.6	302.8	292.2	289.6
37.5°	887.7	548.0	335.9	299.0	294.7	310.3	320.3	313.4	284.0	270.9	267.8
40°	952.8	540.5	312.8	285.3	288.4	304.0	309.7	288.4	258.4	250.2	247.7
42.5°	1047.2	525.5	292.2	273.4	282.8	295.3	295.3	257.1	245.9	241.5	240.9
45°	1164.9	514.9	274.0	263.4	274.6	277.8	267.8	240.9	232.7	231.5	232.1
47.5°	1222.4	494.2	255.2	251.5	259.6	260.2	234.0	227.7	220.8	219.0	217.7
50°	1213.6	457.3	230.8	235.8	247.1	240.9	213.3	214.6	208.3	207.7	204.6
52.5°	1152.3	399.1	206.4	218.3	230.8	212.7	196.4	195.2	195.2	187.1	183.9
55°	1021.6	321.6	177.0	192.1	207.1	178.9	174.5	173.3	170.2	162.7	160.8
57.5°	808.9	235.8	133.3	149.5	175.8	152.0	151.4	145.8	137.6	132.0	132.0
60°	481.1	135.8	83.8	91.3	116.4	123.2	137.0	134.5	120.7	112.0	109.5
62.5°	219.6	70.1	53.2	54.4	62.6	80.1	107.6	124.5	105.1	90.1	88.8
65°	73.8	51.9	43.8	41.9	43.2	48.2	64.4	88.2	83.8	69.4	66.9
67.5°	45.0	46.3	41.3	38.2	38.2	37.5	36.9	40.0	49.4	48.2	48.8
70°	38.8	42.5	38.2	34.4	33.2	31.3	26.3	21.9	18.8	21.9	23.1
72.5°	31.3	33.8	32.5	29.4	26.3	23.8	18.8	14.4	10.6	9.4	9.4
75°	23.1	25.0	26.3	22.5	20.0	16.9	13.8	9.4	5.6	3.8	3.8
77.5°	16.9	18.8	19.4	17.5	15.0	11.9	8.8	6.3	3.1	1.3	1.3
80°	14.4	16.9	18.8	17.5	15.6	11.3	8.1	4.4	2.5	0.6	0.6
82.5°	13.8	16.9	18.8	16.9	15.0	10.6	8.1	5.0	1.9	0.6	0.6
85°	3.1	4.4	5.6	6.9	8.1	8.1	6.3	3.8	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)