

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: P526421

Luminaire Tested: **GALN-SA1B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526421
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-SA1B-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA 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: 3808 lumens
Efficiency: N/A
Efficacy: 86.5 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

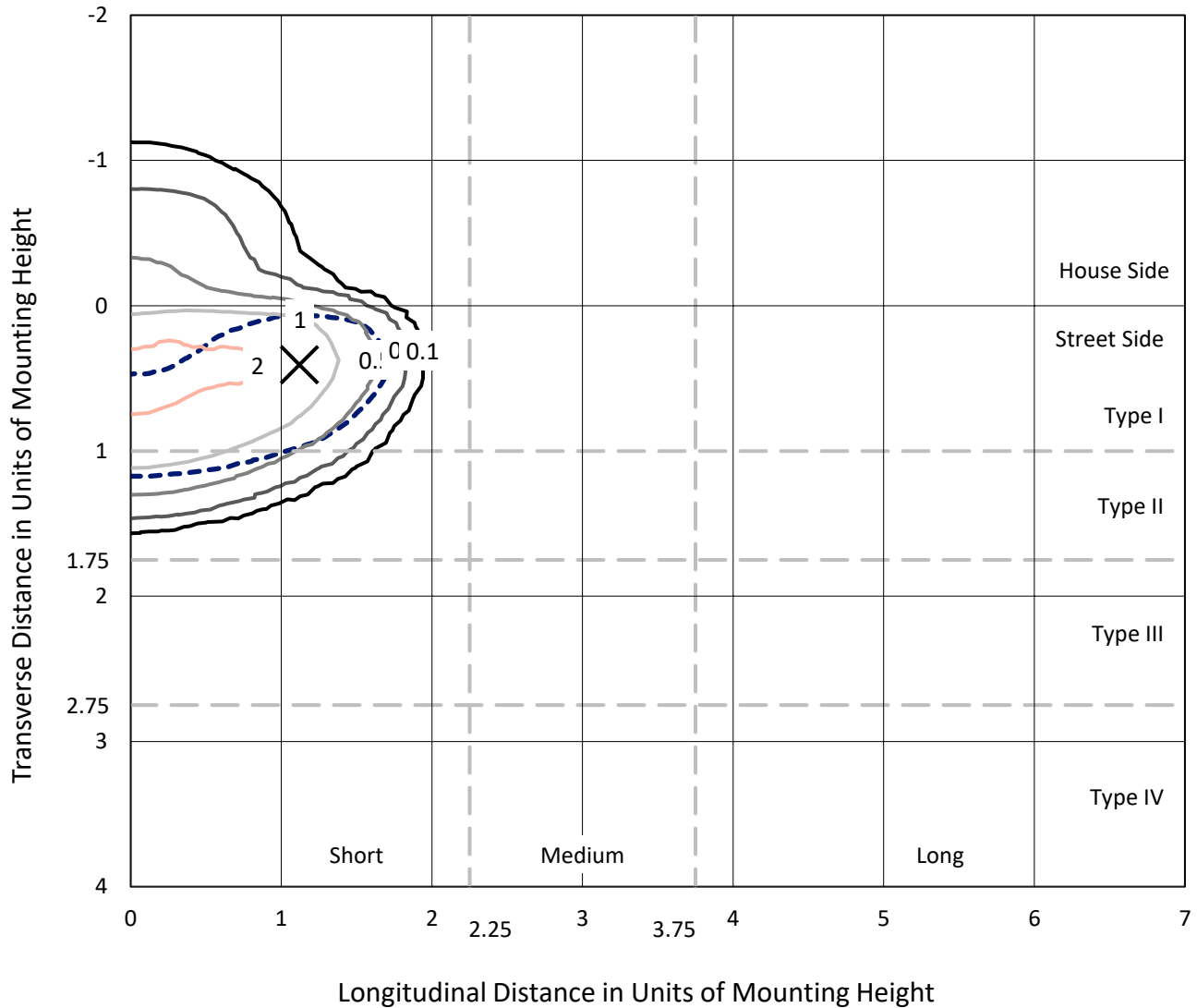
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

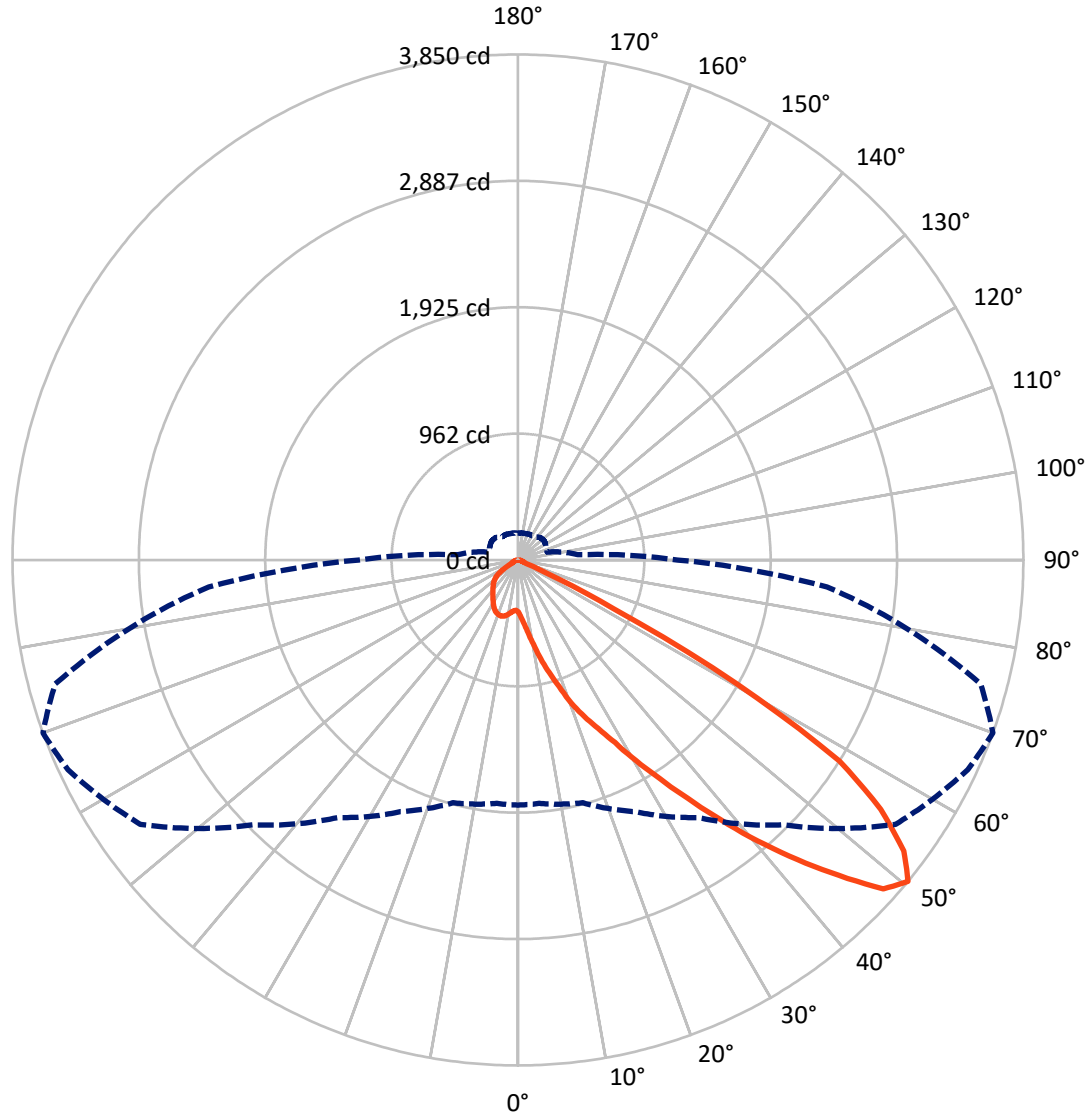
✕ Max cd
 - - - 1/2 Max cd



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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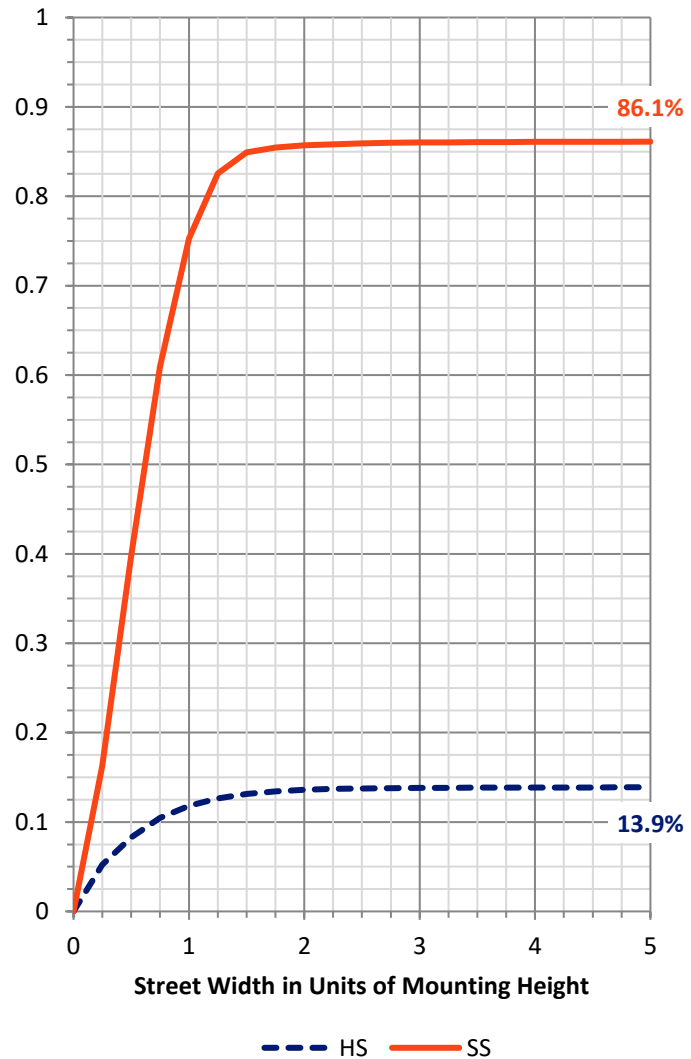
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.8	0.0	531.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3276.2	0.0	3276.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	3808.0	0.0	3808.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	1.3
10°-20°	221.9	5.8
20°-30°	465.4	12.2
30°-40°	802.3	21.1
40°-50°	1172.5	30.8
50°-60°	913.2	24.0
60°-70°	154.7	4.1
70°-80°	21.3	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°	3808.0	100.0
0°-180°	3808.0	100.0



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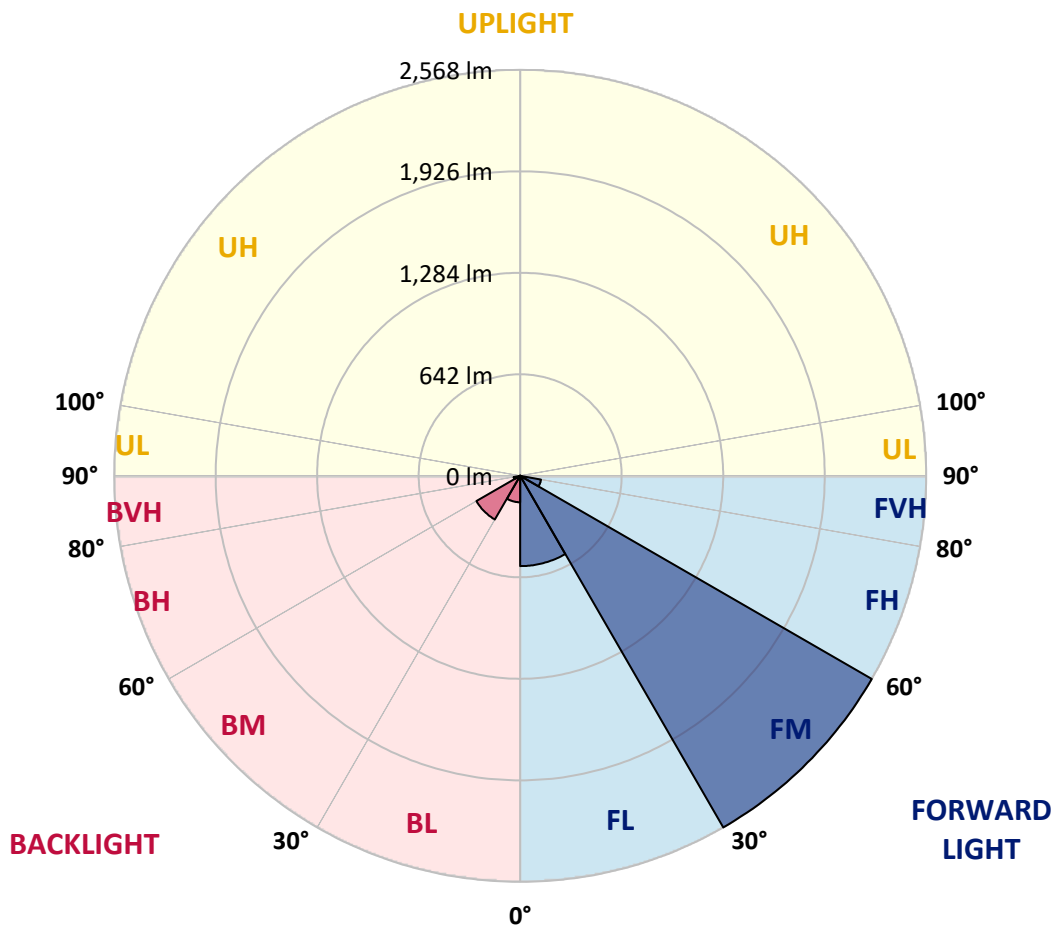
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.2	15.0			
FM (30°-60°)	2568.4	67.4			
FH (60°-80°)	134.0	3.5			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	167.3	4.4	B1/500		
BM (30°-60°)	319.5	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°	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4
2.5°	516.5	512.8	504.6	489.6	483.3	468.3	459.5	442.6	432.0	420.1	407.0
5°	727.5	708.1	696.2	679.3	629.8	599.2	548.5	505.3	485.2	463.3	433.3
7.5°	945.4	932.9	916.6	880.3	846.5	782.6	695.6	600.4	559.7	522.2	462.7
10°	1125.7	1090.6	1088.8	1061.8	1024.9	948.5	844.0	725.6	653.0	597.9	504.6
12.5°	1251.5	1219.6	1234.0	1230.9	1196.4	1126.3	1005.5	849.0	773.2	687.4	547.8
15°	1366.1	1353.0	1348.6	1344.8	1331.1	1279.1	1170.8	999.2	889.7	786.4	596.7
17.5°	1478.2	1444.4	1460.7	1463.8	1462.5	1415.6	1314.2	1142.0	1013.0	890.9	648.0
20°	1577.7	1580.9	1559.0	1554.6	1550.8	1548.9	1450.0	1283.5	1164.5	1000.5	715.0
22.5°	1705.5	1683.5	1703.0	1690.4	1666.0	1651.0	1575.2	1408.7	1296.0	1132.6	783.2
25°	1856.3	1873.9	1828.2	1823.2	1796.2	1744.3	1676.0	1548.9	1422.5	1255.3	857.1
27.5°	2042.3	2011.6	1999.7	1972.2	1923.3	1901.4	1821.3	1693.6	1575.2	1384.3	928.5
30°	2201.9	2193.8	2134.3	2101.8	2059.2	2058.6	1946.5	1889.5	1774.3	1586.5	1026.8
32.5°	2332.2	2296.5	2274.6	2252.0	2217.6	2227.0	2132.4	2102.4	1986.6	1774.3	1142.6
35°	2419.2	2393.5	2380.4	2345.9	2335.9	2377.9	2338.4	2325.9	2230.7	2038.5	1278.5
37.5°	2446.7	2454.9	2452.4	2409.2	2430.5	2543.8	2594.5	2561.9	2511.9	2317.1	1425.6
40°	2471.2	2476.8	2464.3	2515.0	2575.7	2704.7	2888.1	2834.3	2815.5	2599.5	1630.3
42.5°	2484.9	2480.6	2480.6	2568.2	2660.2	2919.4	3171.7	3136.1	3121.7	2900.0	1867.0
45°	2425.5	2382.9	2428.6	2547.5	2732.9	3025.2	3398.4	3447.9	3427.2	3257.5	2143.7
47.5°	2203.2	2229.5	2255.2	2414.2	2644.6	2992.7	3537.4	3705.8	3744.0	3558.0	2325.3
50°	1867.0	1861.4	1914.6	2114.9	2394.8	2852.4	3510.5	3780.3	3849.8	3648.2	2363.5
52.5°	1358.0	1399.3	1456.9	1656.0	1987.8	2489.3	3163.0	3588.1	3680.8	3537.4	2338.4
55°	790.7	745.0	874.6	1043.1	1356.1	1877.6	2674.0	3180.5	3352.1	3335.8	2212.0
57.5°	316.8	306.8	351.2	473.3	707.5	1163.9	1944.6	2613.3	2888.1	3055.3	1944.0
60°	139.0	135.9	159.7	192.8	289.3	536.6	1063.7	1625.3	1912.1	2135.0	1337.9
62.5°	100.2	98.9	110.8	122.7	152.8	233.5	447.0	654.9	816.4	986.1	599.2
65°	80.8	83.9	92.0	98.3	112.7	129.6	157.8	182.2	223.5	231.7	132.1
67.5°	65.7	68.2	75.8	82.6	85.1	70.1	72.6	63.9	63.9	57.0	45.7
70°	48.2	48.8	57.6	65.7	52.6	28.2	49.5	49.5	44.5	42.6	38.8
72.5°	35.7	36.3	43.2	40.7	20.7	17.5	36.3	40.1	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	25.7	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	15.7	16.3	15.7
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°	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4
2.5°	399.4	396.9	388.2	378.8	370.6	374.4	370.6	367.5	368.8	367.5	366.3
5°	421.4	410.1	391.3	383.2	376.3	375.7	373.8	373.1	373.8	373.8	368.1
7.5°	442.0	423.9	403.8	395.1	386.9	387.5	383.2	383.2	382.5	379.4	378.2
10°	473.3	448.9	423.2	407.6	397.6	395.7	391.3	386.9	386.9	386.9	380.7
12.5°	507.8	477.1	442.0	423.9	412.0	402.6	395.7	394.4	387.5	386.3	383.2
15°	537.8	499.0	454.5	429.5	414.5	401.9	391.3	384.4	381.3	379.4	376.9
17.5°	567.2	517.8	461.4	429.5	413.2	398.8	387.5	381.3	373.8	375.0	370.0
20°	606.7	537.8	463.3	421.4	401.3	387.5	372.5	369.4	365.0	361.3	362.5
22.5°	644.9	552.2	457.7	411.3	382.5	366.3	358.7	355.0	353.1	350.0	345.6
25°	679.3	567.9	448.9	393.2	362.5	350.6	343.7	343.1	338.7	338.7	330.6
27.5°	714.4	573.5	433.9	371.9	345.0	338.1	335.0	333.7	331.8	327.4	321.8
30°	754.4	575.4	412.0	350.0	329.3	321.8	326.2	329.3	321.2	313.0	315.5
32.5°	787.6	571.0	385.7	329.3	318.1	314.3	323.1	326.2	316.8	308.0	303.7
35°	827.7	560.3	360.0	313.0	306.8	314.3	321.8	321.8	303.0	292.4	289.9
37.5°	888.4	548.5	336.2	299.3	294.9	310.5	320.6	313.7	284.2	271.1	268.0
40°	953.5	540.9	313.0	285.5	288.6	304.3	309.9	288.6	258.6	250.4	247.9
42.5°	1048.1	525.9	292.4	273.6	283.0	295.5	295.5	257.3	246.1	241.7	241.0
45°	1165.8	515.3	274.2	263.6	274.9	278.0	268.0	241.0	232.9	231.7	232.3
47.5°	1223.4	494.6	255.4	251.7	259.8	260.5	234.2	227.9	221.0	219.1	217.9
50°	1214.6	457.7	231.0	236.0	247.3	241.0	213.5	214.7	208.5	207.9	204.7
52.5°	1153.2	399.4	206.6	218.5	231.0	212.9	196.6	195.3	195.3	187.2	184.1
55°	1022.4	321.8	177.2	192.2	207.2	179.1	174.7	173.4	170.3	162.8	160.9
57.5°	809.5	236.0	133.4	149.6	175.9	152.1	151.5	145.9	137.7	132.1	132.1
60°	481.5	135.9	83.9	91.4	116.5	123.3	137.1	134.6	120.8	112.1	109.6
62.5°	219.8	70.1	53.2	54.5	62.6	80.1	107.7	124.6	105.2	90.2	88.9
65°	73.9	52.0	43.8	41.9	43.2	48.2	64.5	88.3	83.9	69.5	67.0
67.5°	45.1	46.3	41.3	38.2	38.2	37.6	36.9	40.1	49.5	48.2	48.8
70°	38.8	42.6	38.2	34.4	33.2	31.3	26.3	21.9	18.8	21.9	23.2
72.5°	31.3	33.8	32.6	29.4	26.3	23.8	18.8	14.4	10.6	9.4	9.4
75°	23.2	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	15.7	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)