

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: P526371

Luminaire Tested: **GALN-SA1B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439 lumens
Efficiency: N/A
Efficacy: 78.2 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

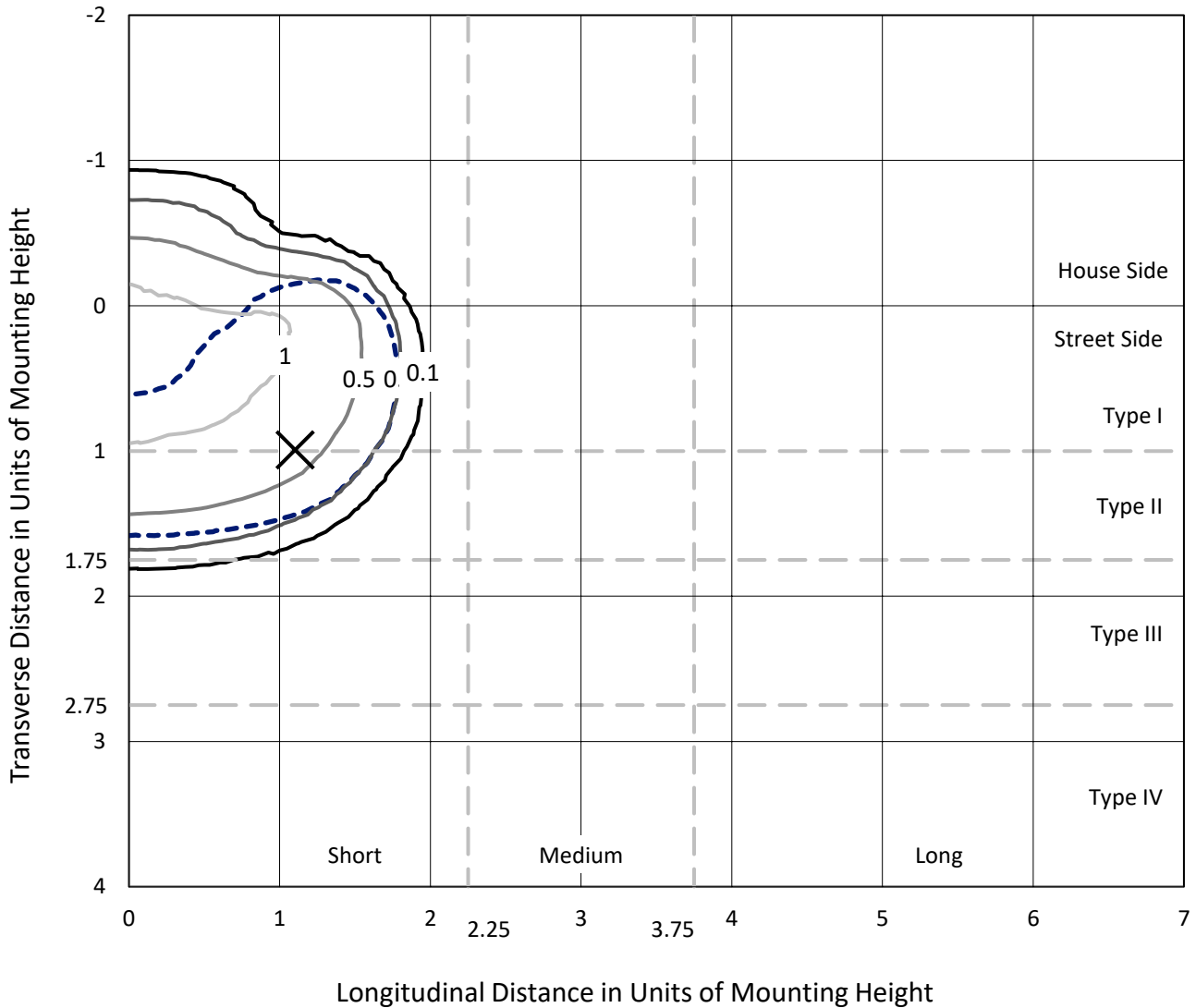
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

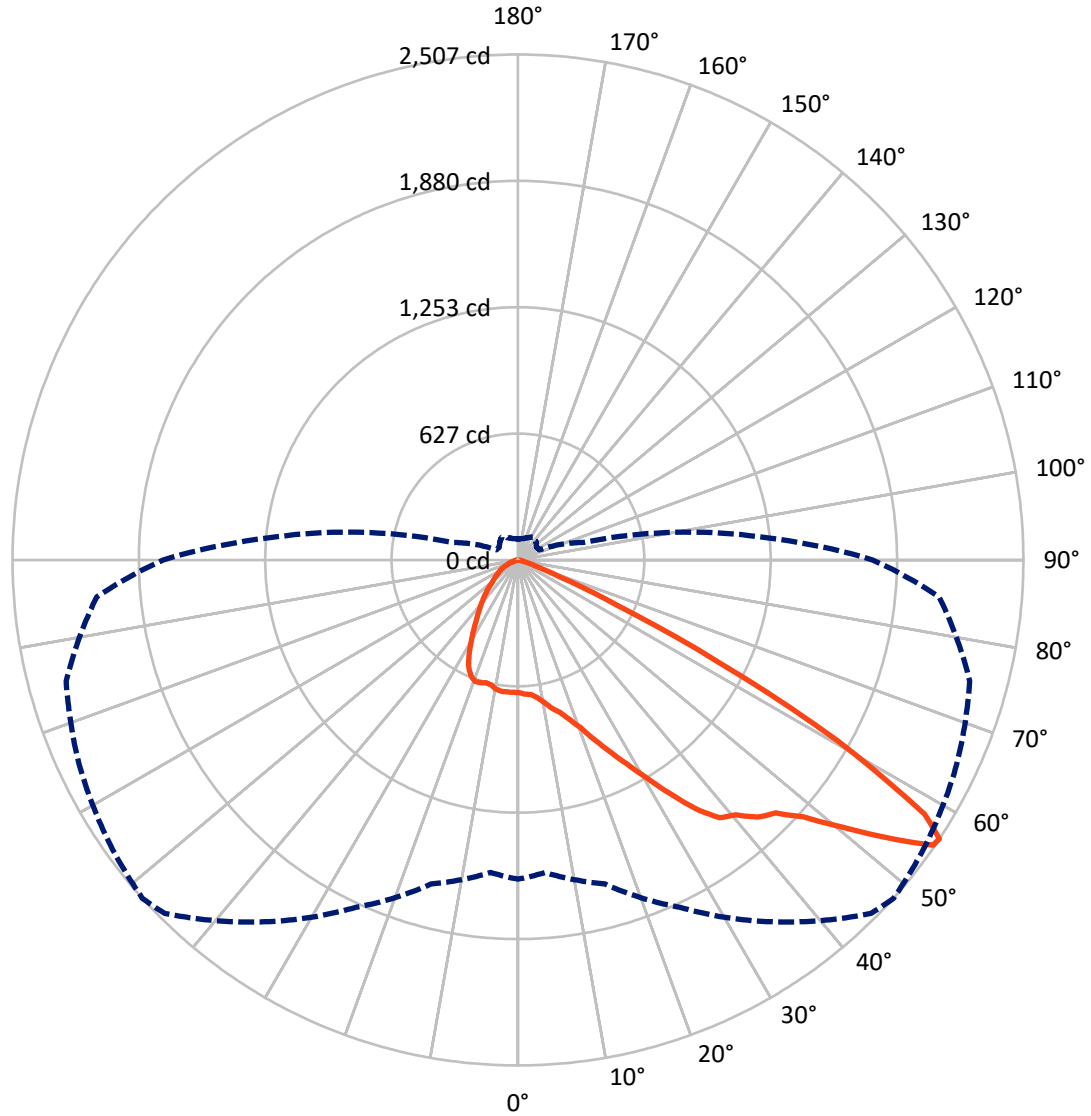
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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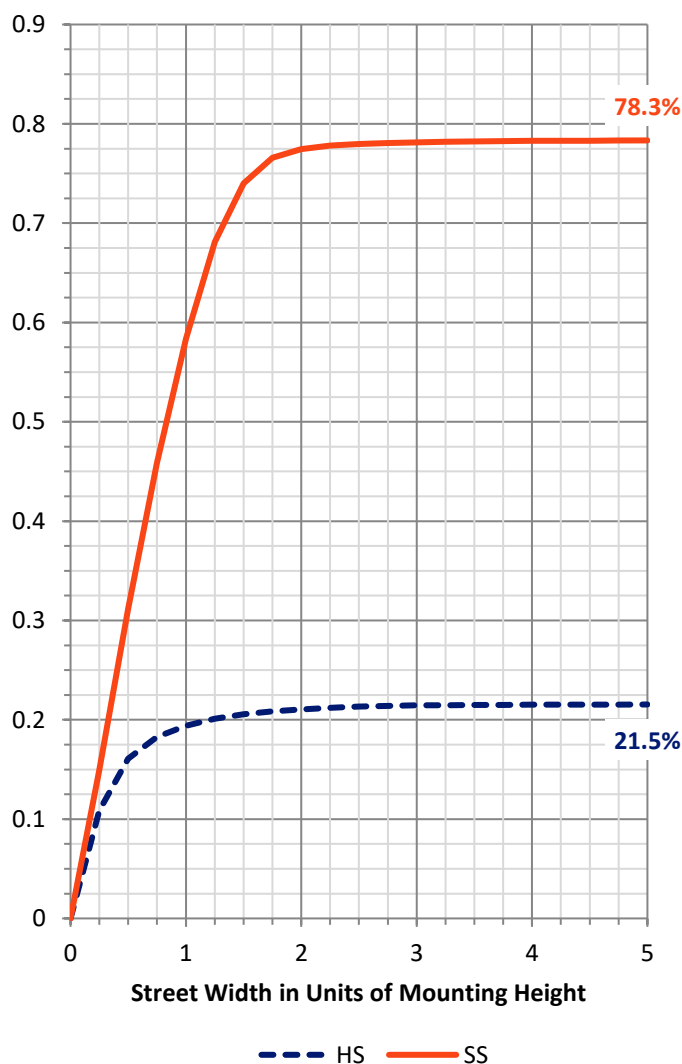
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.9	0.0	747.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2691.1	0.0	2691.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	3439.0	0.0	3439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.9
10°-20°	204.5	5.9
20°-30°	370.9	10.8
30°-40°	582.6	16.9
40°-50°	849.9	24.7
50°-60°	1024.0	29.8
60°-70°	299.8	8.7
70°-80°	38.0	1.1
80°-90°	5.3	0.2
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°	3439.0	100.0
0°-180°	3439.0	100.0

Coefficient of Utilization

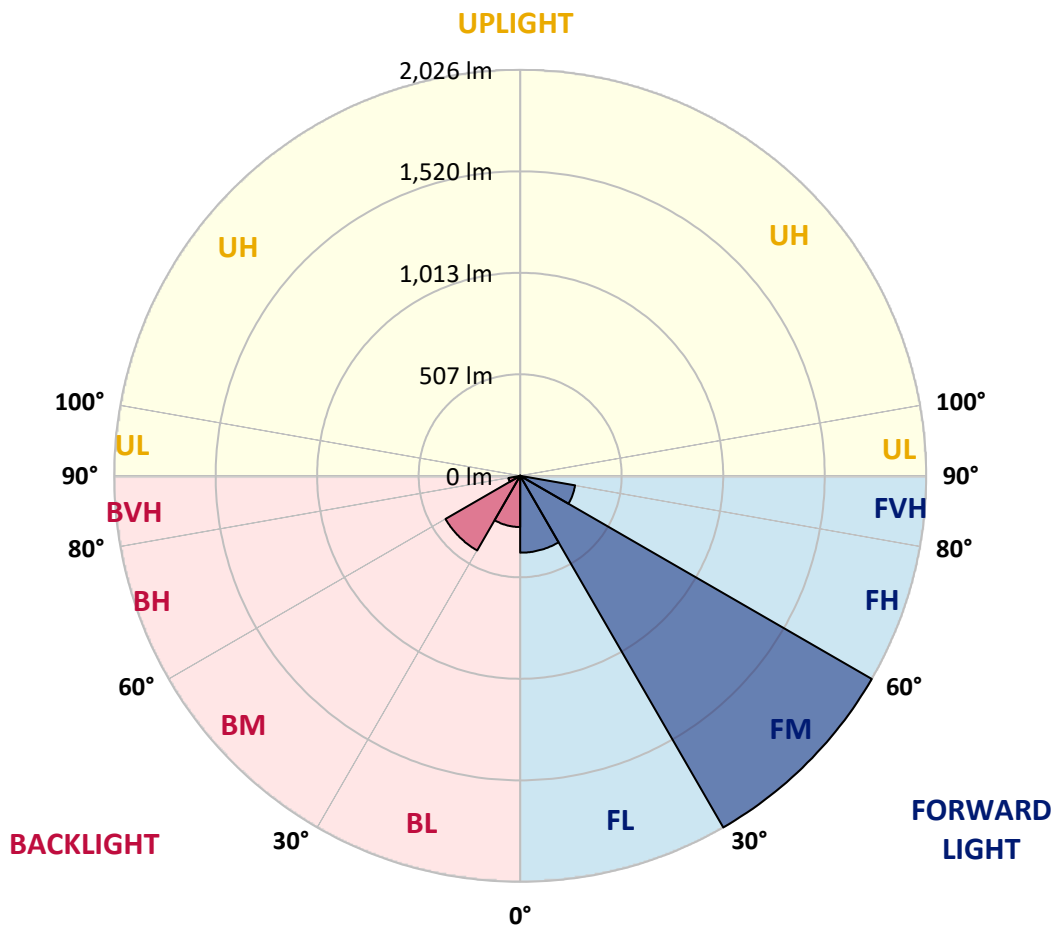


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.7	11.2			
FM (30°-60°)	2026.3	58.9			
FH (60°-80°)	278.4	8.1			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	255.6	7.4	B1/500		
BM (30°-60°)	430.2	12.5	B1/1000		
BH (60°-80°)	59.4	1.7	B0/110		G0/110
BVH (80°-90°)	2.7	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°	48°	55°	65°	75°	85°
0°	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9
2.5°	668.7	665.6	665.6	660.6	666.2	663.7	665.6	659.4	665.6	656.2	663.7
5°	671.9	672.5	670.0	673.1	673.1	676.9	670.6	676.3	679.4	672.5	669.4
7.5°	688.2	689.4	688.8	686.3	691.3	690.7	690.0	685.7	686.9	684.4	680.6
10°	720.1	719.5	722.6	716.3	712.6	717.0	718.2	711.3	706.3	704.4	692.5
12.5°	766.4	758.9	754.5	748.3	750.1	743.9	755.2	743.3	740.8	729.5	717.6
15°	804.0	802.7	803.4	793.4	782.1	784.6	784.6	778.3	774.6	760.8	743.9
17.5°	881.0	854.7	860.4	847.8	838.4	837.8	832.2	833.4	823.4	794.6	768.9
20°	941.1	929.9	921.1	899.8	885.4	889.8	887.3	881.0	877.9	840.3	804.0
22.5°	995.0	998.7	984.3	978.7	958.7	960.5	965.6	959.9	936.1	897.3	843.4
25°	1070.7	1066.4	1047.0	1040.1	1021.3	1028.2	1047.6	1043.2	1028.2	958.0	874.1
27.5°	1160.3	1145.3	1149.0	1117.7	1099.6	1119.0	1142.1	1164.0	1121.5	1029.4	910.4
30°	1223.5	1207.9	1206.6	1205.4	1201.0	1223.5	1250.5	1270.5	1236.1	1100.8	970.6
32.5°	1254.8	1258.6	1269.2	1265.5	1303.7	1350.0	1378.2	1407.0	1363.8	1217.3	1050.1
35°	1338.1	1314.3	1338.1	1340.6	1380.1	1478.4	1514.1	1583.0	1572.3	1382.0	1147.1
37.5°	1387.0	1385.1	1388.2	1412.0	1450.2	1571.7	1622.4	1675.6	1655.6	1480.9	1268.0
40°	1467.7	1472.7	1472.1	1490.3	1532.2	1641.8	1662.5	1705.7	1707.6	1618.0	1445.8
42.5°	1597.4	1577.3	1564.2	1583.0	1641.8	1702.6	1743.9	1735.1	1797.1	1784.6	1674.4
45°	1713.8	1725.7	1706.3	1737.6	1758.9	1791.5	1790.2	1809.0	1887.9	1947.4	1846.6
47.5°	1822.8	1830.3	1839.7	1861.0	1907.3	1912.3	1901.7	1893.5	2002.5	2063.9	1979.9
50°	1887.9	1894.8	1938.6	1976.8	2063.2	2074.5	2080.8	2060.1	2134.0	2140.9	2105.8
52.5°	1870.4	1877.9	1939.2	2065.1	2202.9	2306.2	2287.4	2252.3	2247.9	2274.9	2222.3
55°	1715.1	1708.2	1792.7	1988.7	2246.7	2494.7	2497.2	2460.2	2389.5	2371.3	2204.7
56°	1583.0	1556.0	1663.7	1900.4	2190.3	2478.4	2506.6	2467.1	2400.7	2319.3	2096.4
57.5°	1296.8	1322.5	1429.5	1625.5	1995.6	2361.3	2377.6	2368.2	2318.1	2181.6	1844.7
60°	715.1	760.2	854.7	1094.5	1420.8	1812.1	1825.3	1901.7	1911.1	1670.6	1269.2
62.5°	303.7	298.7	397.0	573.6	809.0	1093.9	1118.3	1196.6	1211.0	963.0	636.8
65°	123.4	130.2	179.7	288.7	427.7	498.4	532.9	558.5	606.1	397.6	234.8
67.5°	81.4	80.8	105.8	164.7	230.4	222.3	222.3	234.8	217.3	162.2	101.4
70°	58.2	60.1	75.8	114.0	143.4	106.4	102.1	97.7	110.8	107.1	82.0
72.5°	38.2	40.7	50.7	68.3	74.5	58.2	58.2	70.1	91.4	86.4	67.0
75°	25.0	25.7	31.3	39.4	36.9	30.1	33.2	47.0	66.4	63.9	47.6
77.5°	16.9	17.5	21.3	25.7	20.7	16.9	18.2	23.8	32.6	32.6	25.0
80°	6.3	6.9	8.8	8.1	9.4	11.9	13.1	16.3	19.4	19.4	16.9
82.5°	0.0	0.6	1.9	4.4	6.9	9.4	10.6	12.5	14.4	16.3	15.7
85°	0.0	0.6	1.9	3.1	5.0	5.6	6.3	4.4	3.8	3.8	3.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6	0.6
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°	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9	656.9
2.5°	656.9	656.2	656.2	654.3	658.1	656.2	657.5	656.9	648.7	655.0	650.6
5°	663.7	668.1	661.2	660.0	655.0	656.9	656.9	650.6	656.2	655.6	654.3
7.5°	681.3	673.8	666.2	658.7	657.5	655.6	648.7	646.2	650.6	645.6	653.1
10°	688.8	690.0	678.8	668.7	659.4	646.2	636.8	631.2	624.3	631.8	636.2
12.5°	723.2	710.7	691.3	675.6	643.7	630.6	621.2	618.7	630.6	633.1	628.7
15°	735.1	733.2	708.2	673.1	639.9	624.3	626.2	621.2	622.4	616.1	617.4
17.5°	759.5	738.3	708.8	665.0	639.3	635.6	624.3	604.3	593.0	588.0	592.4
20°	786.5	765.8	723.2	668.1	645.0	634.9	598.0	573.6	550.4	537.9	538.5
22.5°	810.3	784.6	717.0	669.4	650.0	608.6	564.2	516.0	487.2	467.7	468.4
25°	839.1	802.7	719.5	671.9	636.8	566.7	502.8	455.9	421.4	408.3	412.6
27.5°	855.3	814.0	733.2	677.5	602.4	507.2	438.3	394.5	374.4	368.2	367.6
30°	904.2	839.1	750.1	666.2	544.8	443.3	379.5	352.5	333.1	327.5	328.7
32.5°	976.8	884.8	772.1	636.8	485.9	386.3	341.3	321.2	303.1	292.4	291.2
35°	1037.6	963.0	795.2	591.1	417.7	342.5	314.3	289.3	261.7	249.8	246.7
37.5°	1153.4	1051.3	790.2	522.2	352.5	310.0	285.5	254.9	231.1	214.8	212.9
40°	1307.4	1154.7	765.8	438.3	304.3	281.1	254.9	225.4	196.0	182.2	181.0
42.5°	1494.7	1281.1	721.3	353.2	256.1	252.3	228.6	194.7	168.4	158.4	159.0
45°	1646.8	1389.5	676.3	283.7	220.4	224.2	203.5	171.6	153.4	145.3	145.3
47.5°	1782.1	1462.7	627.4	234.2	187.2	196.0	177.8	159.0	143.4	137.1	135.9
50°	1912.3	1537.2	578.6	189.7	159.7	168.4	166.6	151.5	139.0	131.5	132.1
52.5°	1993.7	1549.1	516.6	155.3	139.6	149.7	155.9	142.1	128.4	124.0	122.7
55°	1894.2	1395.7	400.7	127.7	118.3	131.5	143.4	127.7	117.1	109.6	109.0
56°	1760.2	1248.0	335.0	117.7	112.1	126.5	139.0	122.1	110.2	105.8	102.7
57.5°	1490.3	1021.3	247.3	104.6	103.9	117.7	132.1	116.5	102.7	98.9	98.9
60°	929.2	574.8	149.7	87.7	90.2	104.6	119.0	103.9	91.4	91.4	93.3
62.5°	423.3	239.2	90.8	74.5	77.6	90.2	105.8	93.9	87.0	93.9	95.2
65°	144.0	103.3	65.7	59.5	61.4	74.5	90.8	95.2	94.6	98.9	101.4
67.5°	80.8	66.4	55.1	49.5	48.2	55.1	74.5	95.2	91.4	89.5	90.8
70°	68.3	56.4	48.8	43.8	42.0	44.5	57.6	72.0	64.5	62.6	61.4
72.5°	55.1	47.0	42.6	39.4	33.8	28.8	26.3	27.6	30.7	32.6	35.7
75°	38.8	35.7	35.7	31.9	24.4	18.2	14.4	11.9	8.1	5.6	6.3
77.5°	21.9	21.9	22.5	19.4	15.7	11.9	8.8	6.3	3.1	1.3	0.6
80°	15.0	16.3	17.5	15.7	13.1	10.6	7.5	4.4	1.9	0.0	0.0
82.5°	15.0	16.9	18.2	15.7	13.1	10.0	7.5	4.4	1.9	0.6	0.0
85°	3.1	3.8	4.4	5.0	7.5	7.5	5.6	3.8	1.9	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	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)