

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: P526317

Luminaire Tested: **GALN-SA1B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526317
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-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3468 lumens
Efficiency: N/A
Efficacy: 78.8 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

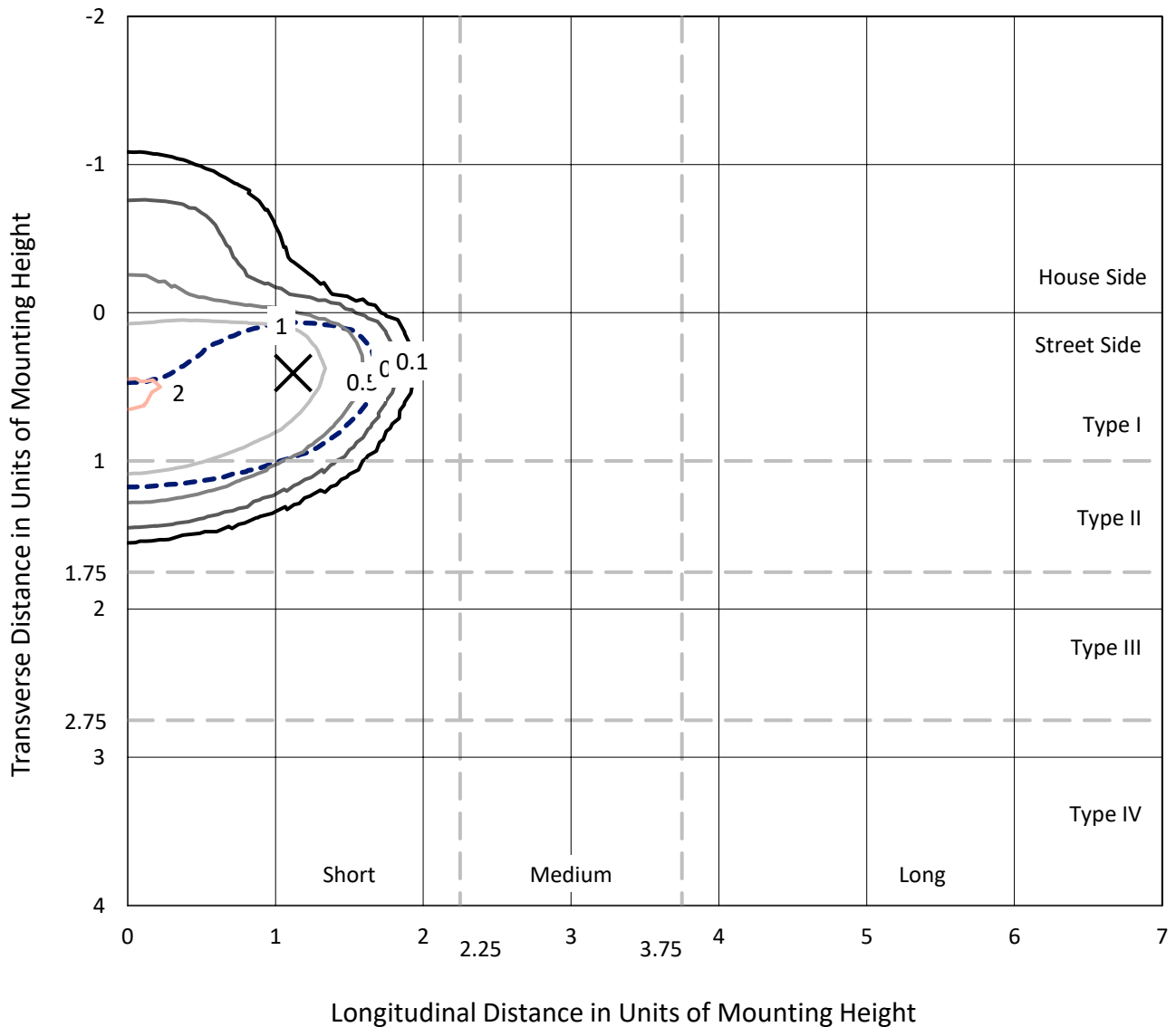
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

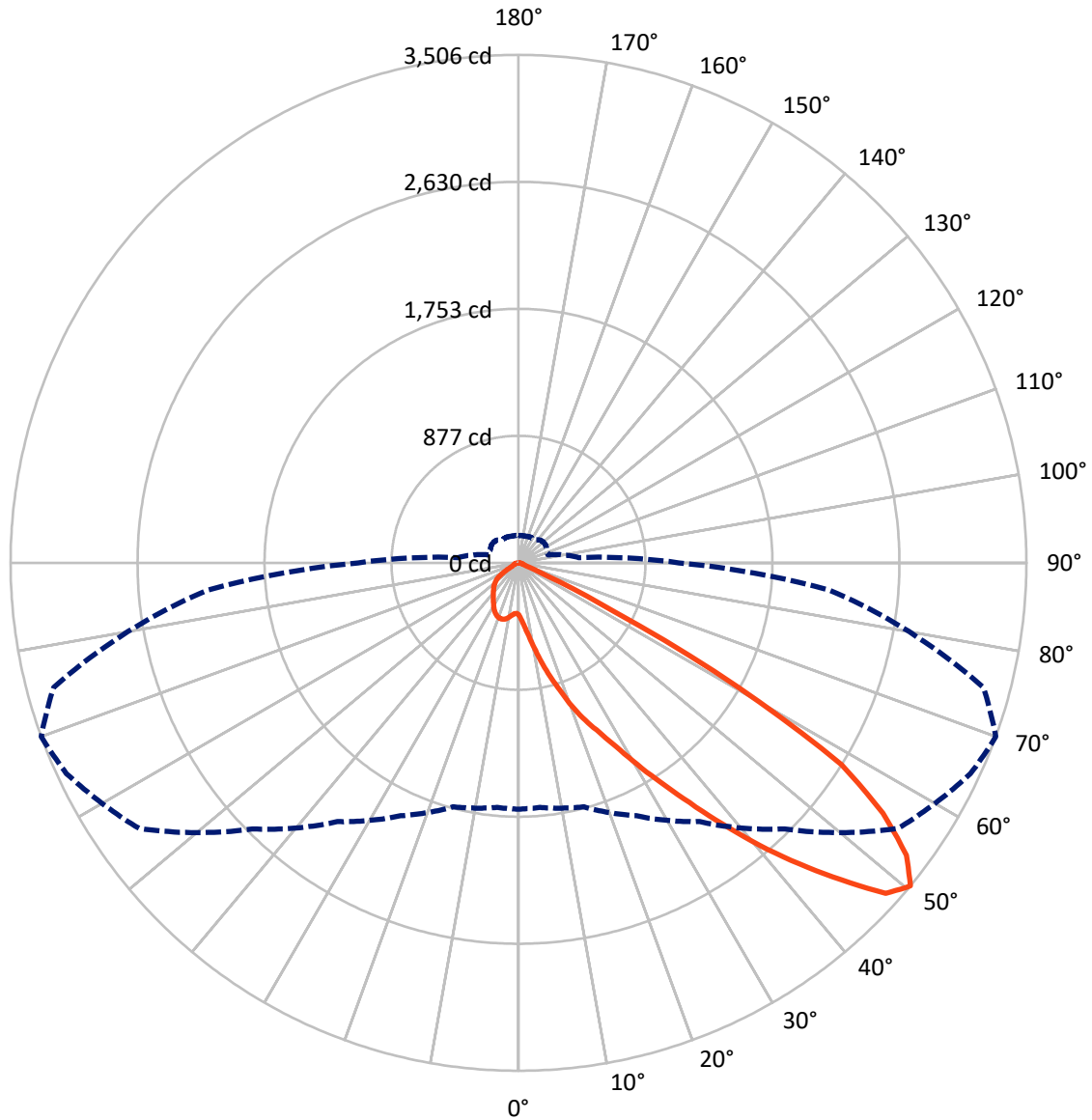
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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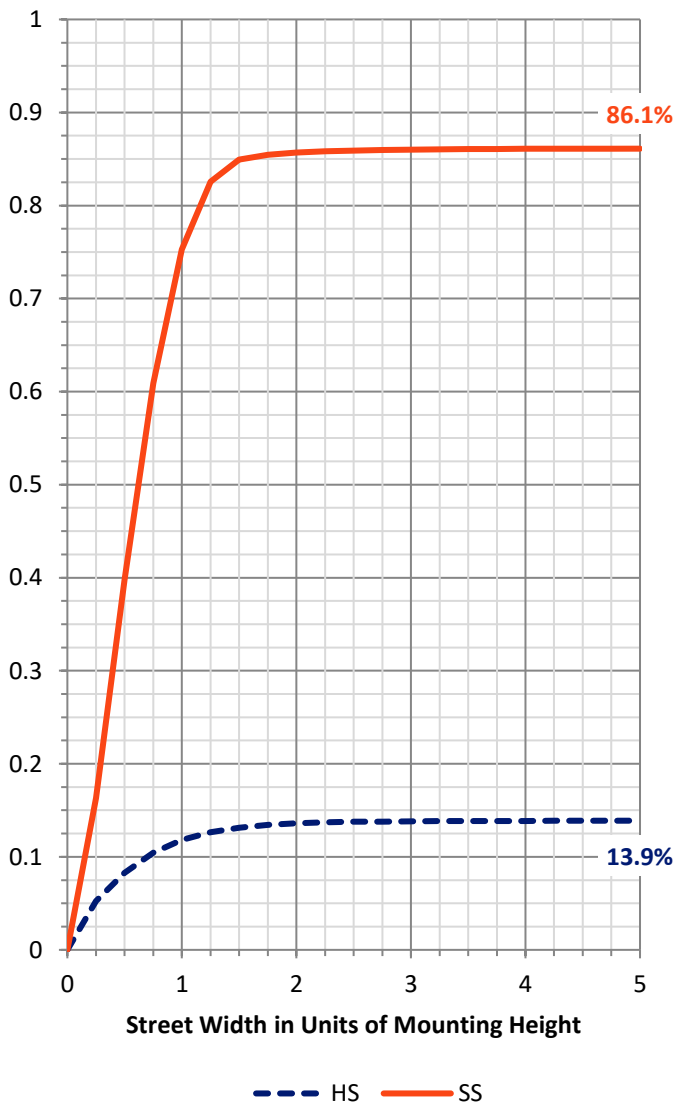
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.3	0.0	484.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2983.7	0.0	2983.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	3468.0	0.0	3468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.3
10°-20°	202.1	5.8
20°-30°	423.9	12.2
30°-40°	730.6	21.1
40°-50°	1067.8	30.8
50°-60°	831.6	24.0
60°-70°	140.9	4.1
70°-80°	19.4	0.6
80°-90°	5.0	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°	3468.0	100.0
0°-180°	3468.0	100.0

Coefficient of Utilization

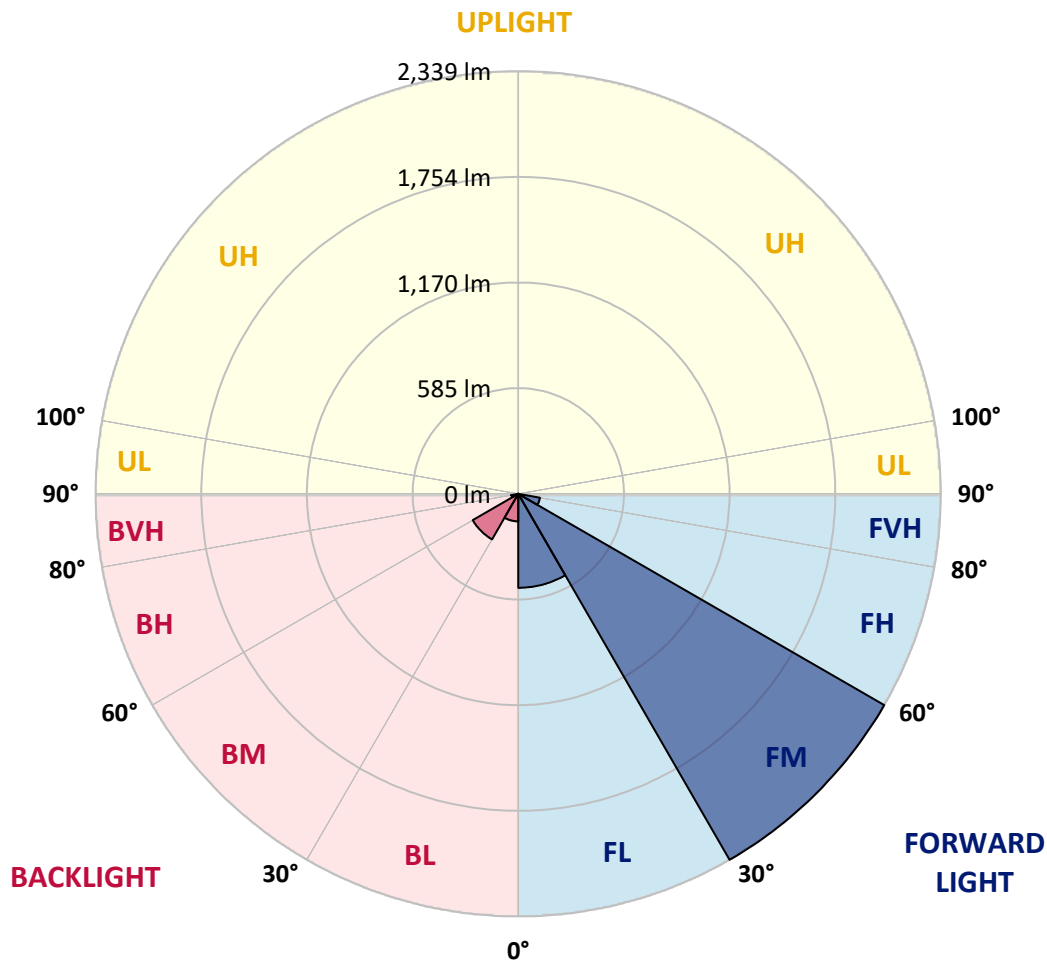


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.2	15.0			
FM (30°-60°)	2339.1	67.4			
FH (60°-80°)	122.0	3.5			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	152.4	4.4	B1/500		
BM (30°-60°)	291.0	8.4	B1/1000		
BH (60°-80°)	38.3	1.1	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	470.4	467.0	459.6	445.9	440.2	426.5	418.5	403.1	393.4	382.6	370.6
5°	662.6	644.9	634.0	618.7	573.6	545.7	499.5	460.1	441.9	421.9	394.6
7.5°	861.0	849.6	834.8	801.7	770.9	712.7	633.5	546.8	509.7	475.5	421.4
10°	1025.2	993.3	991.6	967.0	933.4	863.8	768.6	660.8	594.7	544.5	459.6
12.5°	1139.8	1110.7	1123.8	1121.0	1089.6	1025.8	915.7	773.2	704.2	626.1	498.9
15°	1244.1	1232.2	1228.2	1224.8	1212.2	1164.9	1066.2	910.0	810.2	716.2	543.4
17.5°	1346.2	1315.4	1330.2	1333.1	1332.0	1289.2	1196.8	1040.0	922.6	811.4	590.1
20°	1436.9	1439.7	1419.8	1415.8	1412.3	1410.6	1320.5	1168.9	1060.5	911.2	651.2
22.5°	1553.2	1533.2	1550.9	1539.5	1517.3	1503.6	1434.6	1282.9	1180.3	1031.5	713.3
25°	1690.6	1706.6	1664.9	1660.4	1635.9	1588.5	1526.4	1410.6	1295.5	1143.2	780.6
27.5°	1859.9	1832.0	1821.2	1796.1	1751.6	1731.7	1658.7	1542.4	1434.6	1260.7	845.6
30°	2005.3	1997.9	1943.8	1914.1	1875.3	1874.8	1772.7	1720.8	1615.9	1444.8	935.1
32.5°	2123.9	2091.4	2071.5	2051.0	2019.6	2028.1	1942.0	1914.7	1809.2	1615.9	1040.6
35°	2203.2	2179.8	2167.8	2136.5	2127.4	2165.6	2129.6	2118.2	2031.6	1856.5	1164.3
37.5°	2228.3	2235.7	2233.4	2194.1	2213.5	2316.7	2362.8	2333.2	2287.6	2110.3	1298.3
40°	2250.5	2255.7	2244.2	2290.4	2345.7	2463.2	2630.3	2581.2	2564.1	2367.4	1484.8
42.5°	2263.1	2259.1	2259.1	2338.9	2422.7	2658.8	2888.6	2856.1	2842.9	2641.1	1700.3
45°	2208.9	2170.1	2211.7	2320.1	2488.9	2755.1	3095.0	3140.0	3121.2	2966.7	1952.3
47.5°	2006.5	2030.4	2053.8	2198.6	2408.5	2725.5	3221.5	3374.9	3409.7	3240.4	2117.7
50°	1700.3	1695.2	1743.6	1926.1	2181.0	2597.8	3197.0	3442.8	3506.1	3322.5	2152.4
52.5°	1236.7	1274.4	1326.8	1508.1	1810.3	2267.1	2880.6	3267.7	3352.1	3221.5	2129.6
55°	720.1	678.5	796.5	949.9	1235.0	1710.0	2435.3	2896.5	3052.8	3037.9	2014.5
57.5°	288.5	279.4	319.9	431.1	644.3	1060.0	1771.0	2380.0	2630.3	2782.5	1770.4
60°	126.6	123.7	145.4	175.6	263.4	488.6	968.7	1480.2	1741.3	1944.3	1218.5
62.5°	91.2	90.1	100.9	111.8	139.1	212.7	407.1	596.4	743.5	898.0	545.7
65°	73.6	76.4	83.8	89.5	102.6	118.0	143.7	165.9	203.6	211.0	120.3
67.5°	59.9	62.2	69.0	75.3	77.5	63.9	66.1	58.2	58.2	51.9	41.6
70°	43.9	44.5	52.5	59.9	47.9	25.7	45.0	45.0	40.5	38.8	35.4
72.5°	32.5	33.1	39.3	37.1	18.8	16.0	33.1	36.5	33.1	31.4	28.5
75°	23.9	24.5	20.5	8.6	8.0	10.3	19.4	25.1	23.9	23.4	21.7
77.5°	4.6	3.4	2.9	4.0	5.7	8.6	12.5	15.4	16.0	17.1	16.0
80°	0.6	0.6	1.7	3.4	6.3	9.1	13.1	14.8	15.4	16.0	14.8
82.5°	0.0	0.6	1.7	3.4	6.3	8.6	11.4	13.1	14.3	14.8	14.3
85°	0.0	0.6	1.1	2.9	5.1	6.3	5.7	4.0	3.4	4.0	2.9
87.5°	0.0	0.0	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	363.8	361.5	353.5	345.0	337.5	341.0	337.5	334.7	335.8	334.7	333.6
5°	383.7	373.5	356.4	349.0	342.7	342.1	340.4	339.8	340.4	340.4	335.3
7.5°	402.6	386.0	367.8	359.8	352.4	352.9	349.0	349.0	348.4	345.5	344.4
10°	431.1	408.8	385.4	371.2	362.1	360.4	356.4	352.4	352.4	352.4	346.7
12.5°	462.4	434.5	402.6	386.0	375.2	366.6	360.4	359.2	352.9	351.8	349.0
15°	489.8	454.4	414.0	391.1	377.5	366.1	356.4	350.1	347.2	345.5	343.3
17.5°	516.6	471.5	420.2	391.1	376.3	363.2	352.9	347.2	340.4	341.5	337.0
20°	552.5	489.8	421.9	383.7	365.5	352.9	339.3	336.4	332.4	329.0	330.1
22.5°	587.3	502.9	416.8	374.6	348.4	333.6	326.7	323.3	321.6	318.7	314.7
25°	618.7	517.2	408.8	358.1	330.1	319.3	313.0	312.5	308.5	308.5	301.1
27.5°	650.6	522.3	395.1	338.7	314.2	307.9	305.0	303.9	302.2	298.2	293.1
30°	687.1	524.0	375.2	318.7	299.9	293.1	297.1	299.9	292.5	285.1	287.4
32.5°	717.3	520.0	351.2	299.9	289.7	286.2	294.2	297.1	288.5	280.5	276.5
35°	753.8	510.3	327.9	285.1	279.4	286.2	293.1	293.1	276.0	266.3	264.0
37.5°	809.1	499.5	306.2	272.5	268.6	282.8	291.9	285.7	258.9	246.9	244.0
40°	868.4	492.6	285.1	260.0	262.9	277.1	282.2	262.9	235.5	228.1	225.8
42.5°	954.5	479.0	266.3	249.2	257.7	269.1	269.1	234.3	224.1	220.1	219.5
45°	1061.7	469.3	249.7	240.0	250.3	253.2	244.0	219.5	212.1	211.0	211.5
47.5°	1114.1	450.4	232.6	229.2	236.6	237.2	213.2	207.5	201.3	199.6	198.4
50°	1106.2	416.8	210.4	215.0	225.2	219.5	194.4	195.6	189.9	189.3	186.5
52.5°	1050.3	363.8	188.2	199.0	210.4	193.9	179.0	177.9	177.9	170.5	167.6
55°	931.1	293.1	161.4	175.0	188.7	163.1	159.1	157.9	155.1	148.2	146.5
57.5°	737.2	215.0	121.4	136.3	160.2	138.6	138.0	132.9	125.4	120.3	120.3
60°	438.5	123.7	76.4	83.2	106.1	112.3	124.9	122.6	110.0	102.1	99.8
62.5°	200.1	63.9	48.5	49.6	57.0	73.0	98.1	113.5	95.8	82.1	81.0
65°	67.3	47.3	39.9	38.2	39.3	43.9	58.7	80.4	76.4	63.3	61.0
67.5°	41.1	42.2	37.6	34.8	34.8	34.2	33.6	36.5	45.0	43.9	44.5
70°	35.4	38.8	34.8	31.4	30.2	28.5	23.9	20.0	17.1	20.0	21.1
72.5°	28.5	30.8	29.6	26.8	23.9	21.7	17.1	13.1	9.7	8.6	8.6
75°	21.1	22.8	23.9	20.5	18.2	15.4	12.5	8.6	5.1	3.4	3.4
77.5°	15.4	17.1	17.7	16.0	13.7	10.8	8.0	5.7	2.9	1.1	1.1
80°	13.1	15.4	17.1	16.0	14.3	10.3	7.4	4.0	2.3	0.6	0.6
82.5°	12.5	15.4	17.1	15.4	13.7	9.7	7.4	4.6	1.7	0.6	0.6
85°	2.9	4.0	5.1	6.3	7.4	7.4	5.7	3.4	1.7	0.6	0.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)