

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: P450478

Luminaire Tested: **GALN-SA1B-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3793 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

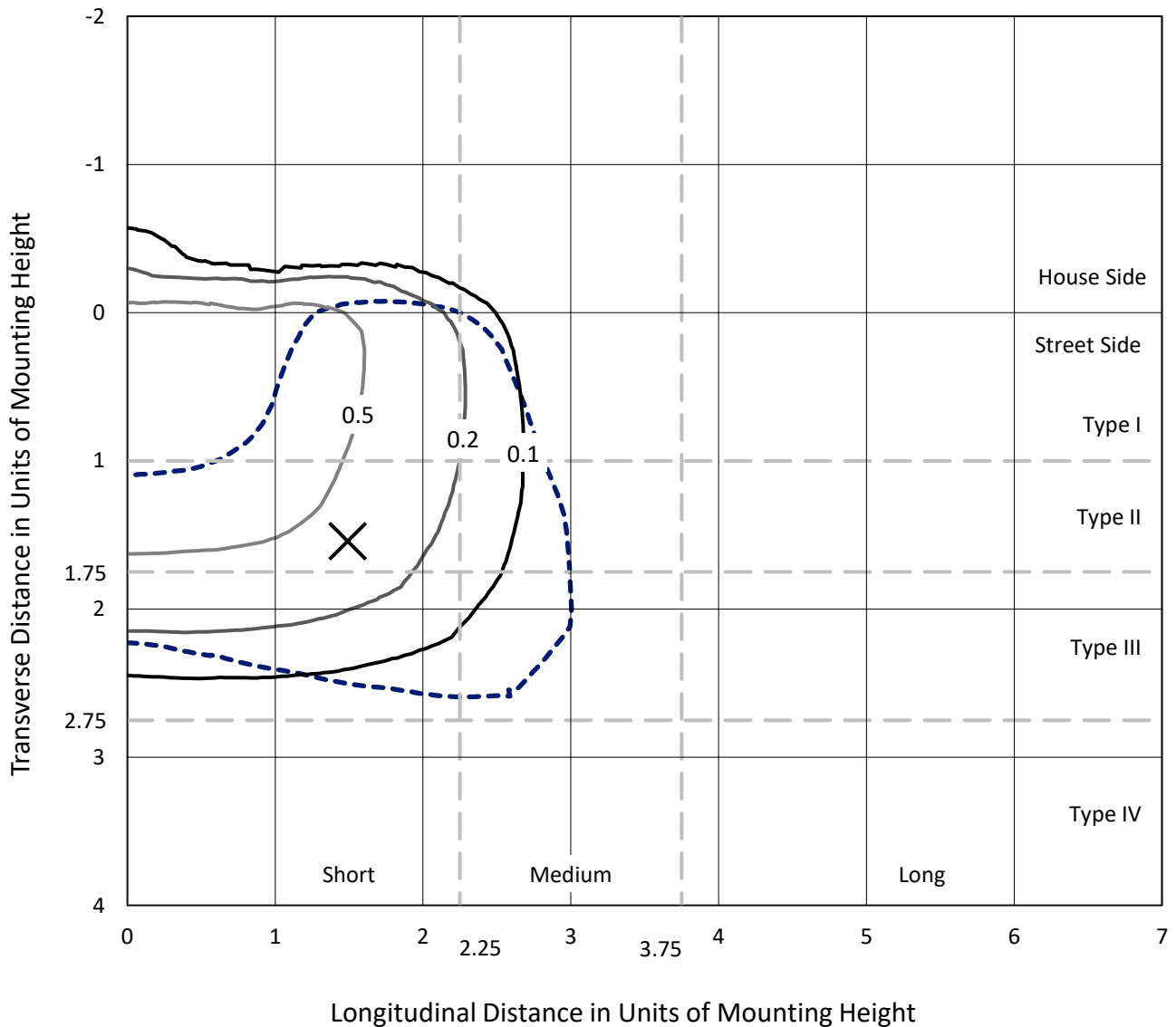
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

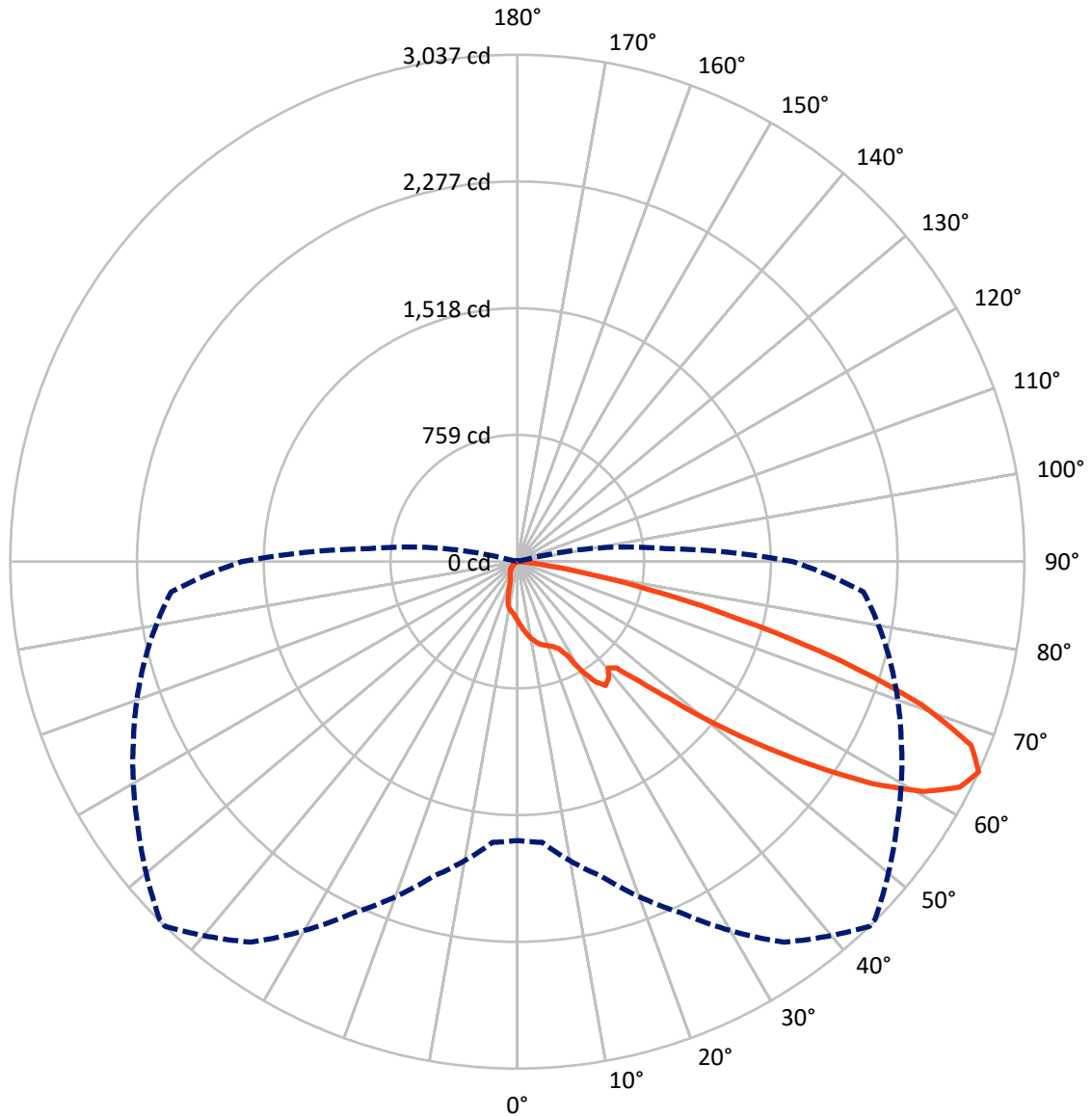
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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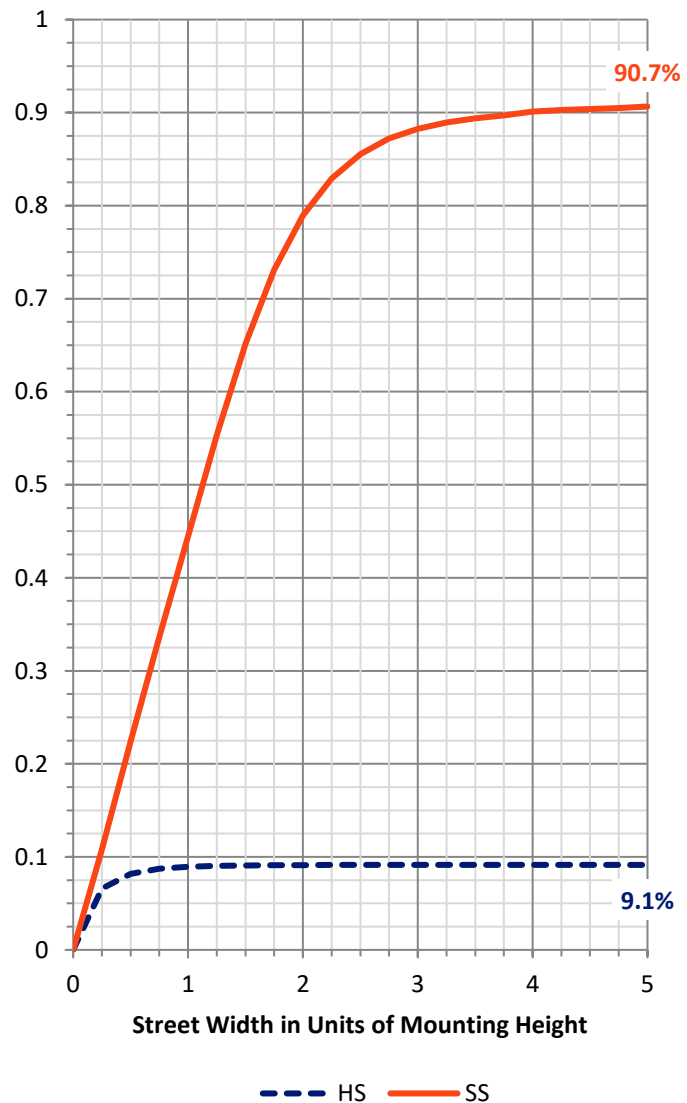
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	349.5	0.0	349.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3443.5	0.0	3443.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	3793.0	0.0	3793.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	0.9
10°-20°	105.7	2.8
20°-30°	179.2	4.7
30°-40°	297.9	7.9
40°-50°	520.2	13.7
50°-60°	1016.2	26.8
60°-70°	1179.1	31.1
70°-80°	429.4	11.3
80°-90°	30.3	0.8
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°	3793.0	100.0
0°-180°	3793.0	100.0



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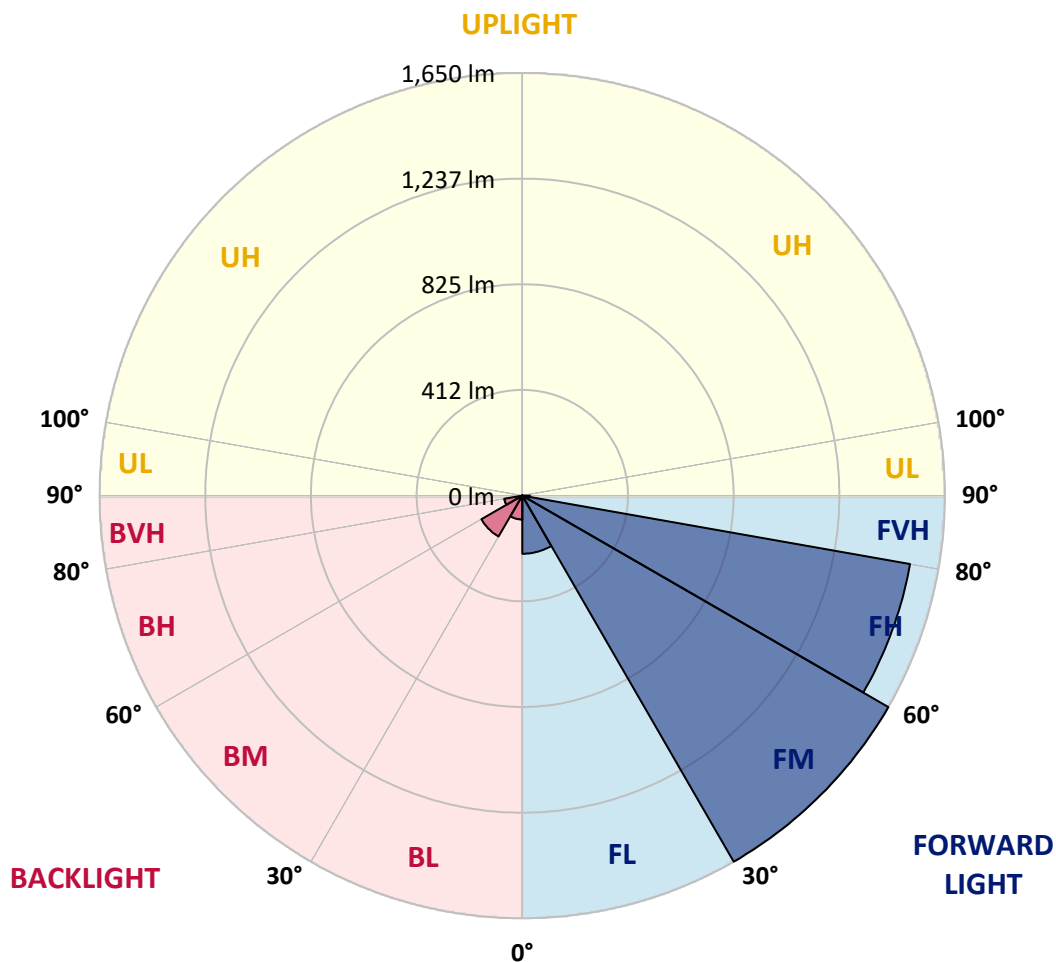
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.9	6.0			
FM (30°-60°)	1650.0	43.5			
FH (60°-80°)	1536.9	40.5			G1/1800
FVH (80°-90°)	29.8	0.8			G1/100
BL (0°-30°)	93.1	2.5	B0/110		
BM (30°-60°)	184.4	4.9	B0/220		
BH (60°-80°)	71.6	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0
2.5°	397.4	395.6	394.8	390.1	386.6	382.3	382.3	376.8	370.4	363.4	357.1
5°	441.7	438.8	435.0	431.0	422.9	411.3	411.3	399.7	386.3	374.5	361.4
7.5°	484.3	481.7	475.3	467.5	454.2	442.0	441.1	424.3	408.4	390.4	371.9
10°	521.7	519.7	514.2	499.1	485.2	469.2	468.9	450.1	431.6	409.5	386.6
12.5°	547.8	548.1	540.8	526.3	508.4	493.3	492.1	473.6	454.2	430.4	402.3
15°	566.3	566.3	558.8	542.6	526.3	513.0	511.8	495.6	475.6	449.8	419.4
17.5°	571.5	573.3	565.2	550.7	537.6	526.0	525.8	512.1	496.2	471.3	436.8
20°	569.5	571.3	564.9	553.6	544.6	537.9	537.1	531.6	516.8	493.3	455.3
22.5°	565.2	566.9	562.3	555.6	551.3	553.3	551.8	556.5	548.7	520.2	477.4
25°	566.0	567.8	564.3	560.5	564.3	576.8	580.5	600.5	593.6	554.4	501.1
27.5°	593.3	596.8	591.8	593.6	606.9	635.9	643.1	677.6	646.9	597.9	538.2
30°	653.9	651.5	642.3	650.7	697.0	758.5	756.5	751.0	702.8	648.1	582.3
32.5°	708.9	706.9	706.3	742.5	826.6	856.5	855.0	801.7	753.0	705.5	625.7
35°	731.2	723.4	721.7	809.5	950.1	910.7	901.7	822.5	813.8	768.1	670.1
37.5°	798.5	793.0	766.0	820.5	900.8	887.8	880.8	858.5	878.8	823.4	720.2
40°	937.0	921.7	897.3	844.0	830.9	836.5	843.4	904.6	955.6	899.1	787.2
42.5°	1109.2	1105.7	1060.5	961.1	863.4	870.9	879.9	1000.8	1066.0	1013.0	896.4
45°	1315.8	1320.8	1255.6	1138.2	1010.1	1016.4	1029.5	1142.8	1215.6	1190.0	1068.3
47.5°	1503.6	1499.9	1477.9	1355.8	1237.6	1223.4	1244.5	1325.1	1422.5	1426.6	1281.6
50°	1692.6	1712.6	1679.9	1632.0	1544.2	1514.4	1506.5	1546.0	1694.4	1674.9	1537.8
52.5°	1964.2	1974.6	1913.2	1901.0	1921.0	1824.2	1816.4	1825.9	1958.7	1892.0	1729.7
55°	2134.9	2128.8	2105.9	2201.0	2280.1	2159.2	2149.4	2110.8	2178.1	2045.3	1914.3
57.5°	2188.8	2197.5	2250.8	2422.7	2609.9	2507.3	2489.4	2379.8	2336.3	2188.2	2084.2
60°	2164.8	2180.7	2295.8	2551.4	2811.1	2795.7	2780.4	2596.3	2449.9	2307.6	2203.3
62.5°	1993.5	2015.8	2199.8	2528.5	2879.2	2975.1	2956.0	2731.4	2525.6	2365.6	2224.2
65°	1670.6	1687.1	1951.4	2320.7	2782.4	3036.6	3029.6	2773.7	2537.5	2312.6	2081.3
67.5°	1190.9	1247.1	1492.1	1955.8	2496.0	2931.6	2943.5	2723.0	2425.9	2083.3	1723.6
70°	748.6	786.9	962.5	1400.2	2001.0	2572.0	2611.1	2490.8	2105.3	1623.9	1153.8
72.5°	357.1	385.5	510.7	886.3	1412.4	2023.6	2054.6	2044.8	1628.0	1023.1	595.3
75°	159.1	169.8	243.7	452.4	911.8	1360.2	1440.5	1453.8	1017.3	500.5	231.6
77.5°	81.2	81.4	114.2	219.1	455.3	811.5	827.5	874.1	551.5	220.6	80.6
80°	43.2	46.1	60.6	103.5	236.2	399.7	397.6	437.1	244.6	108.1	27.0
82.5°	19.4	21.4	34.2	54.2	115.4	151.6	163.5	178.8	104.9	69.0	11.9
85°	5.8	7.0	16.8	27.2	41.7	43.8	49.0	63.2	59.4	49.0	6.1
87.5°	0.9	0.9	7.0	7.5	6.1	7.8	8.1	9.0	19.1	18.0	3.2
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°	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0
2.5°	353.6	351.6	344.3	338.2	333.0	329.8	326.1	323.7	322.6	321.7	322.0
5°	355.0	350.1	337.7	327.8	320.3	312.1	306.6	303.5	302.0	299.7	299.7
7.5°	363.2	355.3	337.9	322.9	309.8	298.8	288.4	284.6	282.0	281.4	280.8
10°	374.8	364.9	341.1	320.3	301.7	286.6	271.9	258.8	248.7	242.6	241.7
12.5°	389.2	375.0	346.1	318.5	294.8	268.1	229.0	202.6	184.9	179.4	180.3
15°	402.6	387.2	351.0	317.1	282.0	222.3	178.0	147.8	138.8	138.0	138.2
17.5°	418.5	400.3	356.8	315.0	246.9	169.8	132.2	124.0	125.8	128.7	128.4
20°	435.0	414.2	363.7	302.9	197.1	127.8	116.8	117.7	120.3	122.9	123.5
22.5°	452.7	430.1	371.9	273.6	150.4	111.3	110.7	111.9	114.5	117.4	118.0
25°	477.1	450.1	377.9	235.3	113.9	102.9	104.0	106.1	108.4	111.6	112.2
27.5°	508.4	477.1	381.1	185.5	98.5	95.4	95.6	98.5	101.4	104.3	104.3
30°	548.9	509.2	374.8	140.3	91.0	88.1	86.9	88.7	92.5	95.4	95.6
32.5°	585.2	539.7	357.9	107.2	85.5	81.4	78.5	78.8	80.3	82.0	82.3
35°	621.4	569.2	329.2	90.1	79.7	75.1	70.7	68.4	67.2	66.4	67.2
37.5°	667.8	606.0	291.0	82.0	74.8	69.0	62.9	58.0	53.9	51.3	51.9
40°	727.5	657.0	245.8	76.8	70.1	63.2	55.1	48.7	41.7	39.4	38.3
42.5°	826.0	734.4	198.2	72.5	65.5	57.1	47.0	38.3	31.9	29.6	30.1
45°	981.7	832.1	152.7	67.8	60.9	50.4	39.4	30.1	24.9	23.8	24.3
47.5°	1188.0	958.5	117.7	62.6	55.1	43.2	31.0	23.8	20.6	20.3	20.0
50°	1382.2	1076.1	98.3	56.8	48.1	35.9	25.5	20.0	18.0	17.7	17.7
52.5°	1557.8	1160.5	80.0	50.1	40.6	29.6	21.4	17.7	15.9	15.1	15.1
55°	1714.1	1215.6	64.9	42.0	31.9	23.5	18.5	15.9	13.9	12.8	12.5
57.5°	1832.0	1222.2	48.7	33.6	23.8	18.3	15.9	13.9	11.6	10.1	9.6
60°	1882.5	1164.5	35.9	25.5	17.7	14.5	12.8	11.3	8.7	7.2	7.0
62.5°	1831.7	1052.4	26.7	19.4	13.6	10.7	9.0	8.4	6.1	4.3	4.1
65°	1650.0	890.4	21.2	14.8	10.1	7.8	5.8	5.5	3.8	2.0	1.7
67.5°	1321.9	697.3	16.8	11.0	7.2	5.2	3.8	3.5	2.0	0.6	0.6
70°	859.6	445.8	13.6	8.1	4.6	3.5	2.3	1.7	1.2	0.3	0.0
72.5°	425.2	208.4	11.0	6.4	3.2	1.7	0.9	0.6	0.9	0.0	0.0
75°	164.9	74.2	8.1	4.3	1.7	0.9	0.6	0.0	0.3	0.0	0.0
77.5°	54.8	24.6	4.9	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.3	9.6	2.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	3.8	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	2.3	1.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.7	1.2	0.9	0.6	0.3	0.0	0.0	0.0	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)