

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: P450471

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5344 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

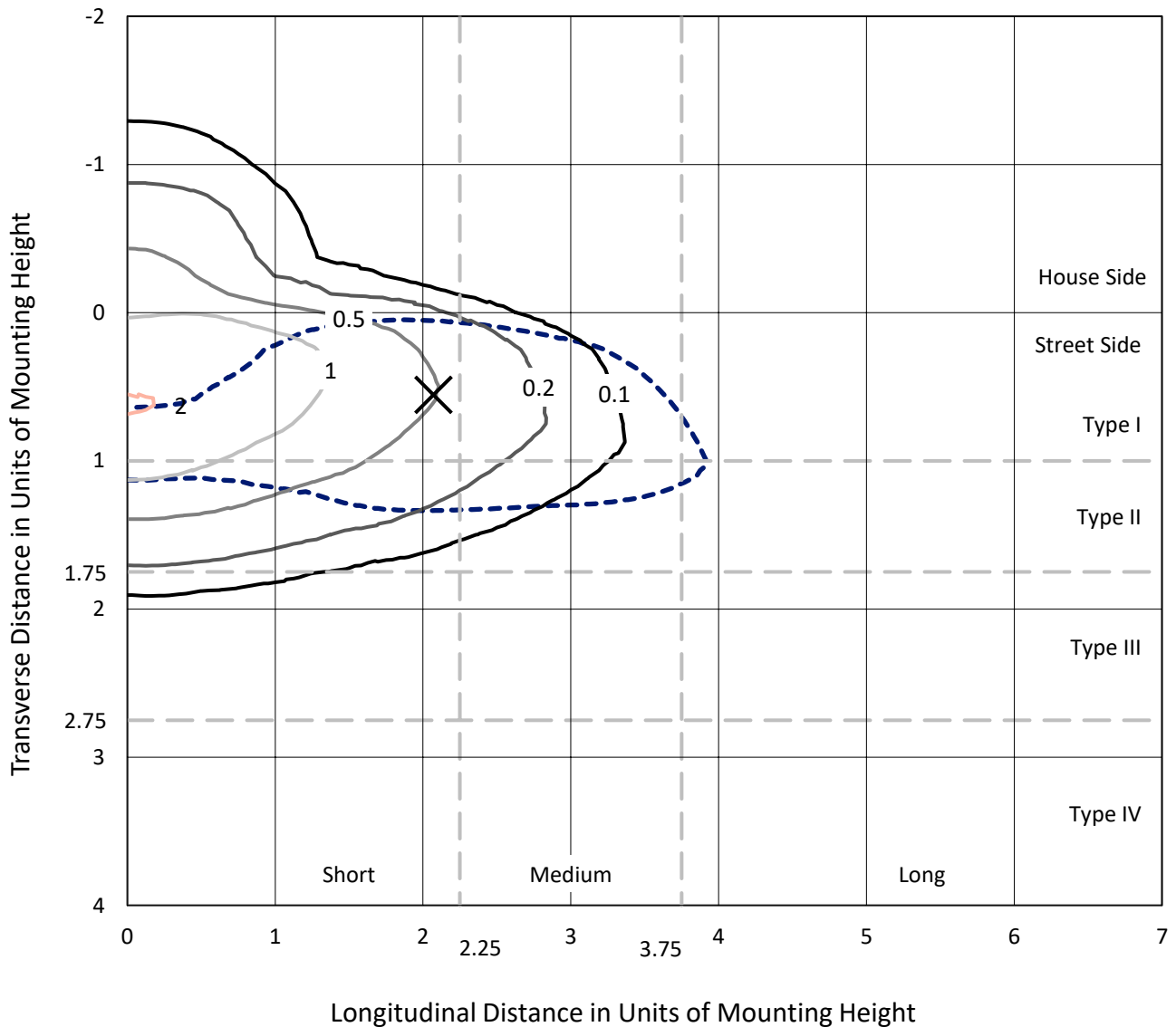
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

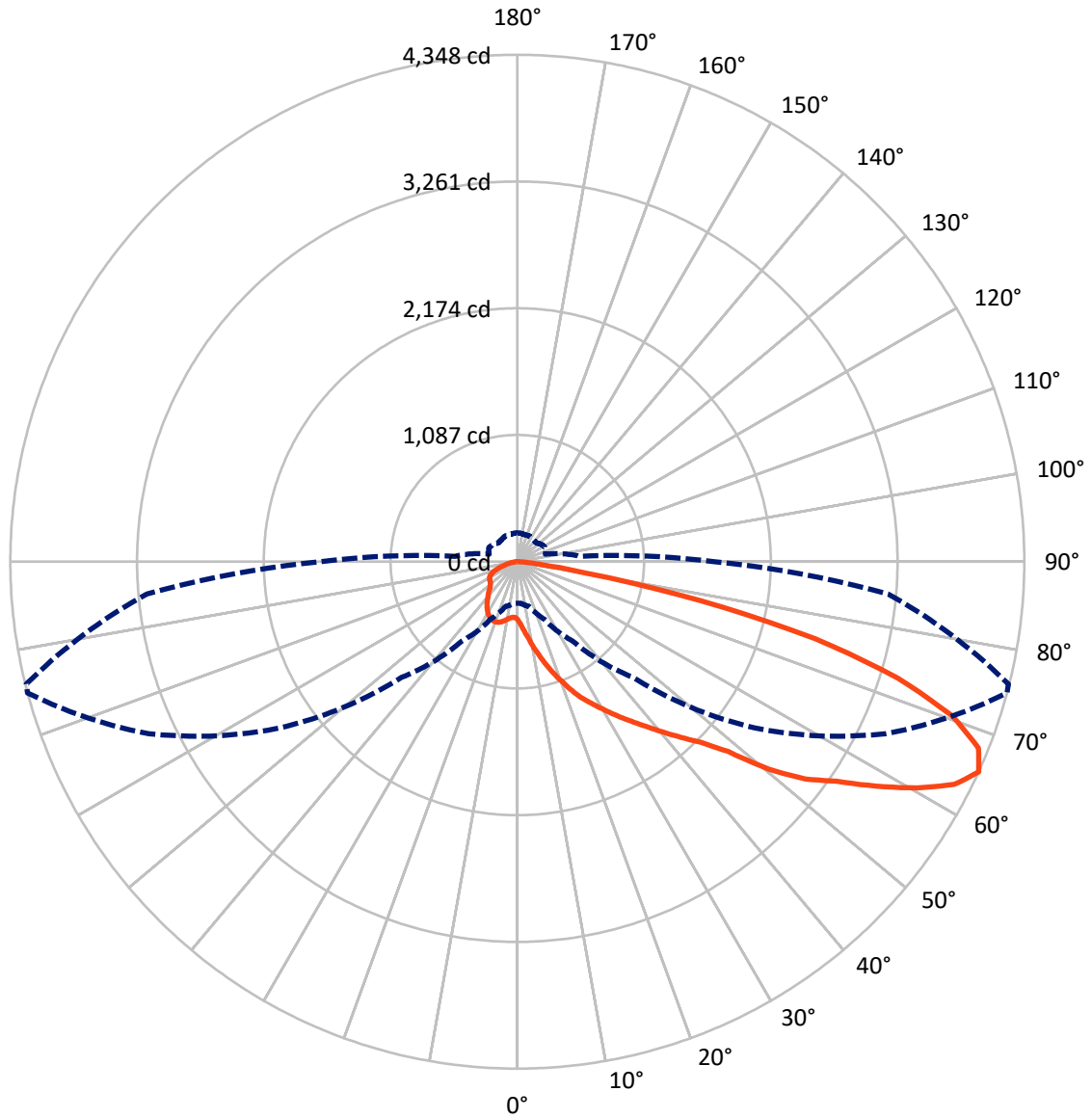
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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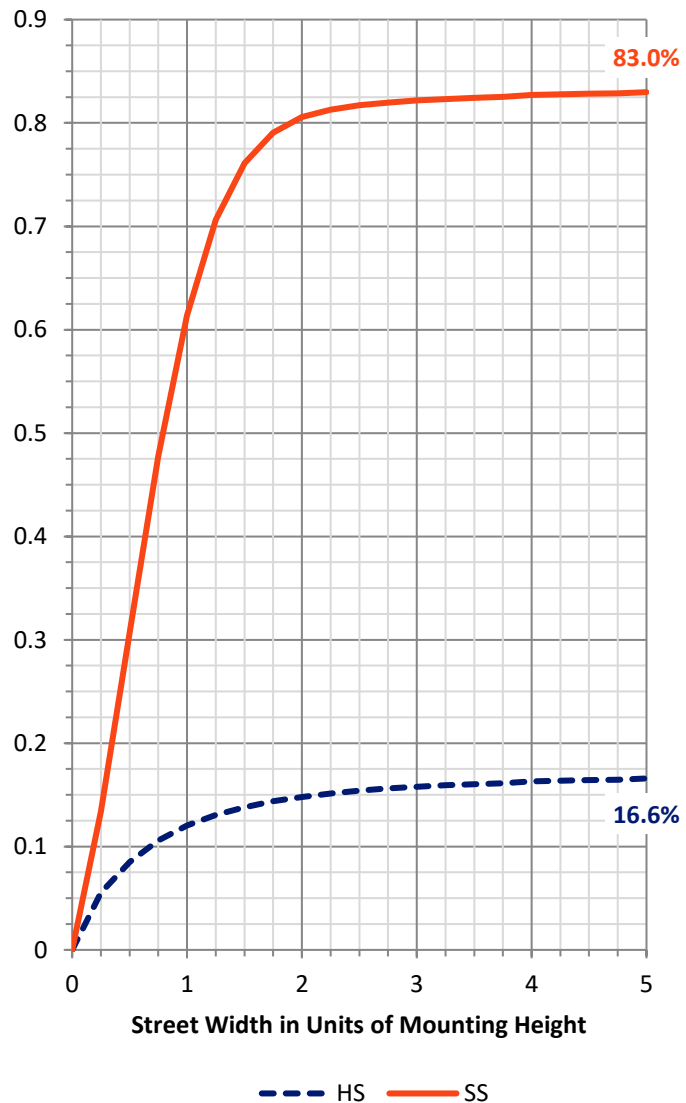
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	898.4	0.0	898.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4445.6	0.0	4445.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5344.0	0.0	5344.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	1.1
10°-20°	236.3	4.4
20°-30°	456.4	8.5
30°-40°	741.4	13.9
40°-50°	1019.8	19.1
50°-60°	1204.1	22.5
60°-70°	1055.0	19.7
70°-80°	503.7	9.4
80°-90°	67.0	1.3
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°	5344.0	100.0
0°-180°	5344.0	100.0



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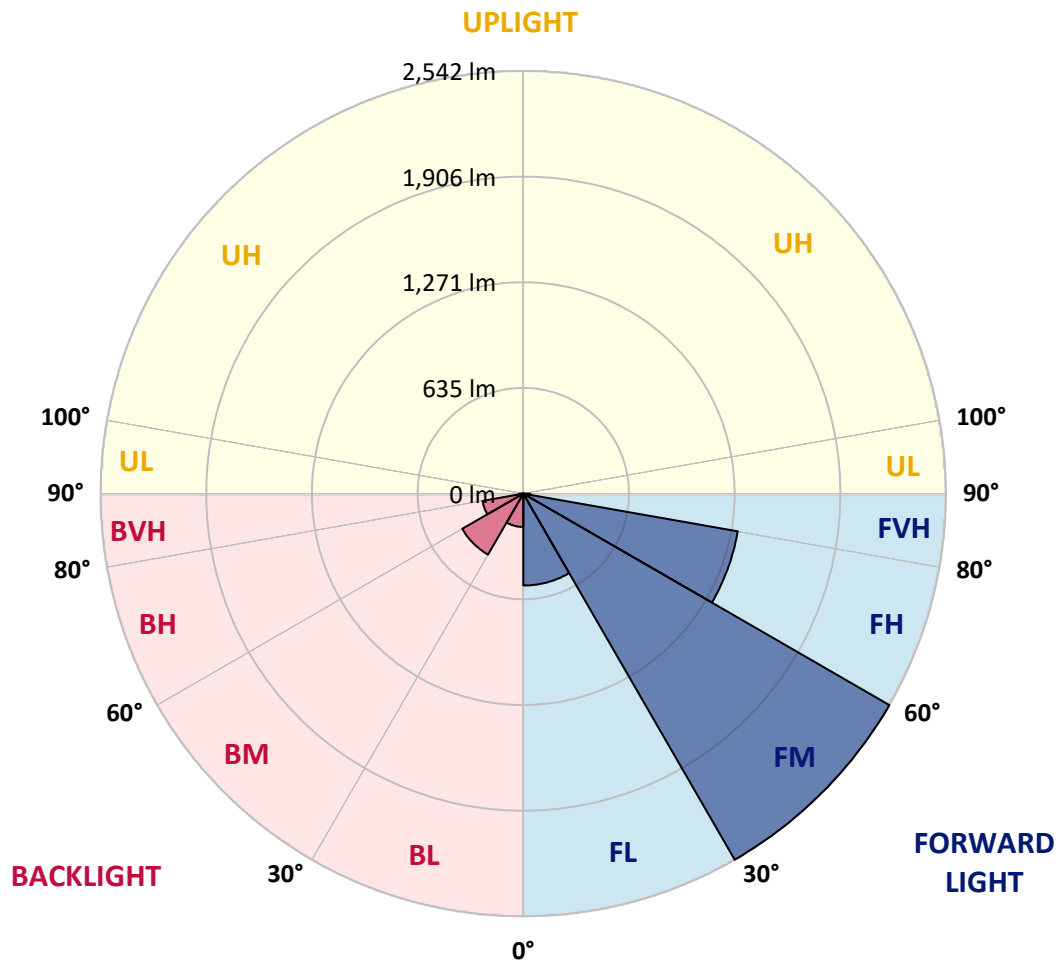
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.5	10.3			
FM	(30°-60°)	2541.7	47.6			
FH	(60°-80°)	1309.5	24.5			G1/1800
FVH	(80°-90°)	41.9	0.8			G1/100
BL	(0°-30°)	200.6	3.8	B1/500		
BM	(30°-60°)	423.6	7.9	B1/1000		
BH	(60°-80°)	249.1	4.7	B1/500		G1/500
BVH	(80°-90°)	25.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5
2.5°	659.7	655.4	650.7	638.0	624.4	609.0	587.0	565.8	537.7	536.8	515.9
5°	842.6	839.7	819.1	807.3	775.7	733.6	698.0	642.6	591.3	585.2	544.6
7.5°	1010.7	999.4	991.6	970.2	938.8	884.9	815.9	741.2	655.4	647.3	580.0
10°	1137.4	1136.2	1132.2	1113.6	1090.2	1036.5	960.0	852.8	736.5	720.6	622.9
12.5°	1232.2	1233.1	1232.5	1232.2	1215.4	1169.9	1087.0	973.9	818.6	807.3	672.5
15°	1294.5	1303.2	1306.7	1321.2	1322.6	1292.2	1220.9	1091.0	911.0	894.2	725.8
17.5°	1335.7	1340.0	1356.2	1380.9	1400.9	1395.4	1331.9	1199.4	1005.5	977.4	781.2
20°	1375.1	1382.6	1395.1	1428.7	1464.1	1480.3	1435.7	1310.4	1099.1	1081.2	842.3
22.5°	1457.1	1467.8	1472.2	1489.3	1519.4	1548.1	1527.8	1416.8	1201.7	1177.4	907.3
25°	1596.0	1607.3	1595.1	1591.0	1600.9	1615.1	1610.7	1517.1	1298.6	1263.8	968.7
27.5°	1776.8	1778.3	1754.5	1731.9	1707.5	1700.3	1687.0	1606.1	1382.6	1353.6	1030.4
30°	1971.0	1964.1	1924.7	1883.8	1842.6	1802.0	1763.8	1691.9	1476.2	1442.9	1091.0
32.5°	2151.3	2147.6	2103.8	2040.3	1970.7	1932.5	1855.1	1778.6	1576.5	1544.4	1153.3
35°	2286.4	2291.9	2243.8	2174.5	2098.6	2064.7	1967.0	1869.6	1680.3	1645.2	1221.2
37.5°	2382.3	2379.4	2336.8	2276.8	2210.2	2180.6	2097.7	1969.0	1791.9	1758.3	1295.4
40°	2416.5	2414.8	2383.2	2339.4	2297.1	2286.7	2234.5	2076.2	1919.7	1880.3	1384.6
42.5°	2394.8	2398.6	2377.7	2365.8	2358.0	2365.5	2370.5	2216.8	2059.1	2022.9	1481.5
45°	2328.1	2326.1	2323.2	2342.6	2386.7	2436.2	2504.9	2349.6	2210.7	2181.8	1611.3
47.5°	2209.0	2223.5	2230.7	2284.4	2380.6	2498.0	2659.7	2527.6	2430.7	2405.5	1809.3
50°	2042.3	2053.9	2096.8	2192.2	2335.7	2521.2	2811.0	2818.6	2797.7	2750.5	2024.4
52.5°	1782.0	1800.0	1888.4	2063.2	2243.5	2511.6	2902.6	3068.1	3095.7	3060.3	2236.2
55°	1490.7	1516.0	1609.3	1838.6	2116.5	2459.4	2965.8	3212.8	3322.6	3289.9	2440.3
57.5°	1205.5	1232.2	1328.1	1550.2	1895.1	2344.1	3007.3	3373.9	3631.6	3589.0	2694.2
60°	903.5	931.3	1013.6	1242.3	1579.7	2118.6	2979.2	3513.6	3940.3	3922.1	2948.4
62.5°	582.9	613.6	685.2	874.5	1214.2	1810.4	2828.7	3590.7	4207.6	4185.5	3133.9
65°	355.1	358.6	398.0	542.9	831.0	1401.7	2484.7	3488.4	4348.4	4341.8	3190.5
67.5°	229.6	235.1	253.0	325.2	498.3	973.6	1986.7	3150.7	4266.1	4263.8	3073.6
70°	193.9	195.7	203.8	219.4	289.6	590.4	1395.1	2612.5	3953.4	3953.4	2792.8
72.5°	173.3	175.7	178.6	183.5	206.7	334.5	832.5	2033.6	3413.4	3436.0	2377.1
75°	157.4	156.8	158.6	159.4	176.2	218.6	430.4	1504.1	2640.6	2595.4	1721.5
77.5°	134.8	135.7	134.8	138.6	155.7	166.4	218.6	1009.3	1600.3	1541.7	864.1
80°	110.7	112.2	113.6	115.9	133.0	126.4	131.3	460.0	591.9	579.4	267.0
82.5°	83.2	85.2	87.5	93.0	104.6	83.5	82.9	196.5	213.6	195.7	98.3
85°	33.6	39.7	60.0	65.5	65.8	45.8	51.0	82.0	87.2	85.2	38.6
87.5°	7.8	9.3	19.4	29.3	27.0	17.1	18.8	26.7	30.4	28.1	13.0
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°	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5	496.5
2.5°	506.4	496.2	478.8	465.5	455.9	447.5	442.3	439.1	438.0	437.7	438.0
5°	523.5	505.5	478.0	460.6	451.0	445.5	442.3	442.0	442.3	442.6	441.7
7.5°	547.0	521.2	485.2	469.0	461.7	457.7	456.2	455.7	455.9	455.7	455.7
10°	578.3	542.9	499.4	482.6	476.5	471.9	469.6	468.1	467.0	465.8	465.2
12.5°	612.8	567.0	514.8	498.6	489.9	482.6	477.4	473.6	471.0	468.4	467.8
15°	651.3	592.5	531.9	509.3	496.8	486.1	477.1	471.0	466.4	462.6	462.3
17.5°	688.1	616.5	543.5	514.2	495.9	480.9	469.0	460.6	454.8	449.9	449.3
20°	727.5	639.4	548.7	511.0	487.2	469.0	453.3	443.2	436.5	431.0	430.1
22.5°	767.3	658.8	548.1	500.9	472.2	450.7	434.2	423.5	415.7	410.1	408.1
25°	805.2	674.5	540.9	484.6	451.3	429.0	412.2	402.3	395.4	388.7	388.7
27.5°	839.4	683.8	527.2	464.9	429.9	406.4	393.0	384.1	377.7	373.3	370.7
30°	873.0	688.1	508.7	440.0	407.2	387.2	376.5	371.3	365.5	360.6	360.0
32.5°	903.2	687.3	485.5	415.7	385.8	371.6	367.2	363.2	357.1	350.1	348.4
35°	932.5	681.5	458.0	389.0	367.8	362.3	363.5	357.7	346.7	338.0	336.5
37.5°	964.4	671.0	427.8	367.2	352.8	358.0	360.9	348.1	330.1	316.5	313.3
40°	1001.2	659.1	396.5	345.5	340.9	353.9	353.9	330.4	305.8	297.4	295.1
42.5°	1044.4	649.3	370.4	327.2	331.0	344.1	342.6	307.0	296.8	292.5	291.3
45°	1112.8	645.8	343.5	311.3	322.9	332.5	320.6	298.8	293.0	289.6	288.4
47.5°	1220.9	649.9	319.7	299.4	313.6	320.9	295.9	293.3	289.3	284.3	283.8
50°	1321.2	646.1	302.9	292.8	305.5	307.0	285.8	286.7	284.3	278.8	277.7
52.5°	1403.2	634.2	292.2	289.3	298.6	282.6	276.2	279.4	278.6	271.6	270.4
55°	1493.3	627.0	287.0	289.3	293.9	261.5	267.2	271.9	270.7	265.8	265.5
57.5°	1602.6	628.4	283.2	290.1	289.3	250.7	258.3	263.8	263.5	262.0	262.0
60°	1714.5	629.0	277.4	289.9	283.8	242.3	249.0	256.8	257.4	258.3	258.3
62.5°	1751.6	603.8	266.1	284.6	271.6	234.2	240.3	251.0	250.4	252.8	253.0
65°	1682.3	533.9	249.3	272.8	255.9	228.4	233.6	243.5	240.3	246.4	247.5
67.5°	1531.3	441.7	223.2	251.3	238.6	222.3	229.3	233.0	227.2	239.1	239.4
70°	1323.5	344.9	190.1	220.9	218.8	215.9	225.8	220.0	211.9	226.4	223.5
72.5°	1106.7	263.5	151.9	180.6	192.5	206.4	219.7	203.2	191.9	196.2	191.0
75°	831.3	194.8	122.0	141.5	160.3	192.8	214.2	182.9	165.5	161.5	160.3
77.5°	423.8	127.2	91.3	105.8	120.3	174.2	206.7	159.1	137.1	130.7	127.8
80°	151.3	79.1	64.3	73.0	81.2	149.9	180.6	131.6	106.4	105.2	106.4
82.5°	70.1	51.0	43.2	47.8	48.1	100.0	137.7	98.3	80.9	122.9	103.8
85°	30.1	25.5	24.3	23.8	22.0	44.6	77.4	52.8	82.3	36.8	33.9
87.5°	9.0	10.1	9.0	6.7	4.9	4.9	7.8	2.9	2.0	1.4	1.4
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)