

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: P450472

Luminaire Tested: **GALN-SA1B-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3850 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

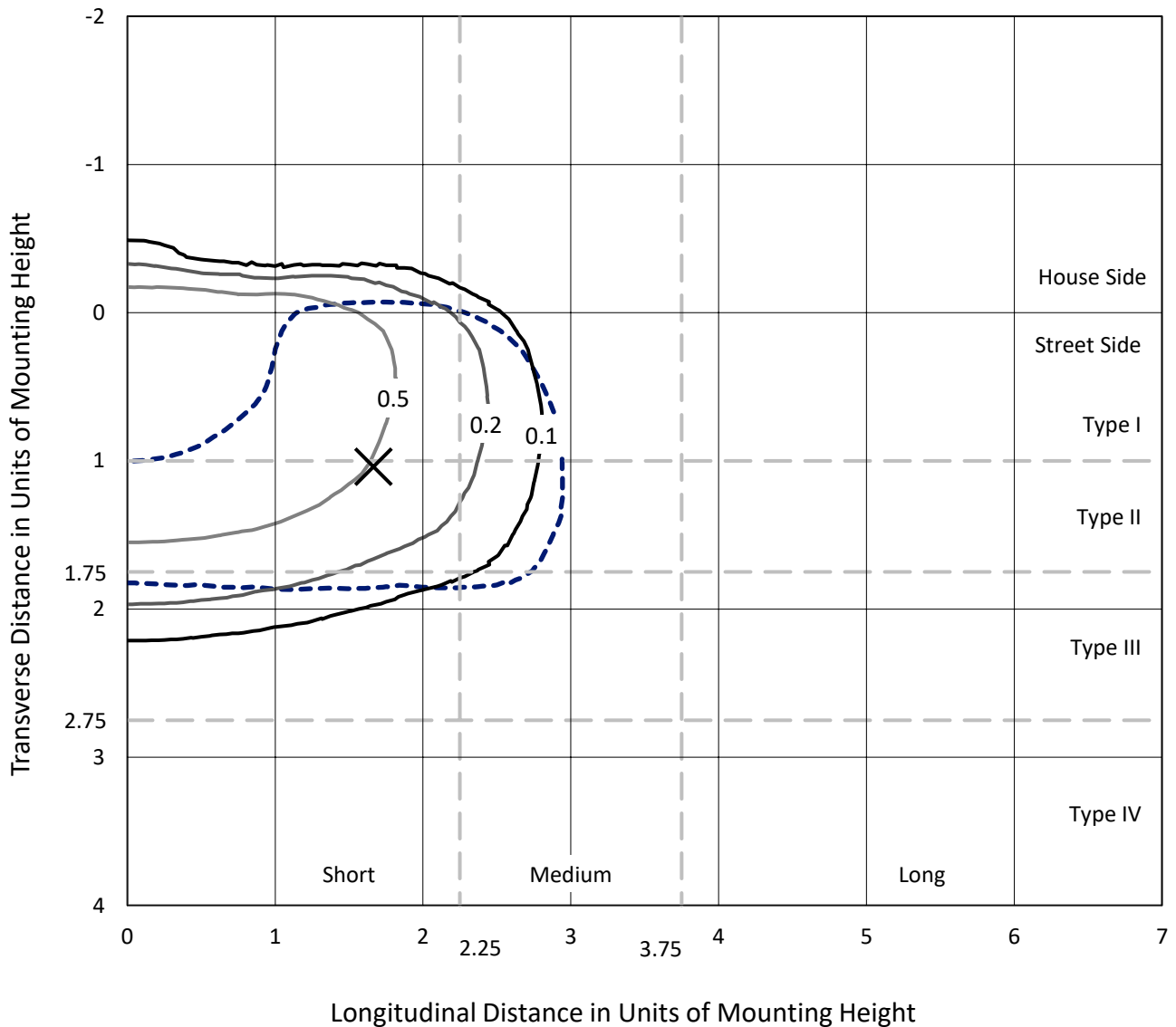
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

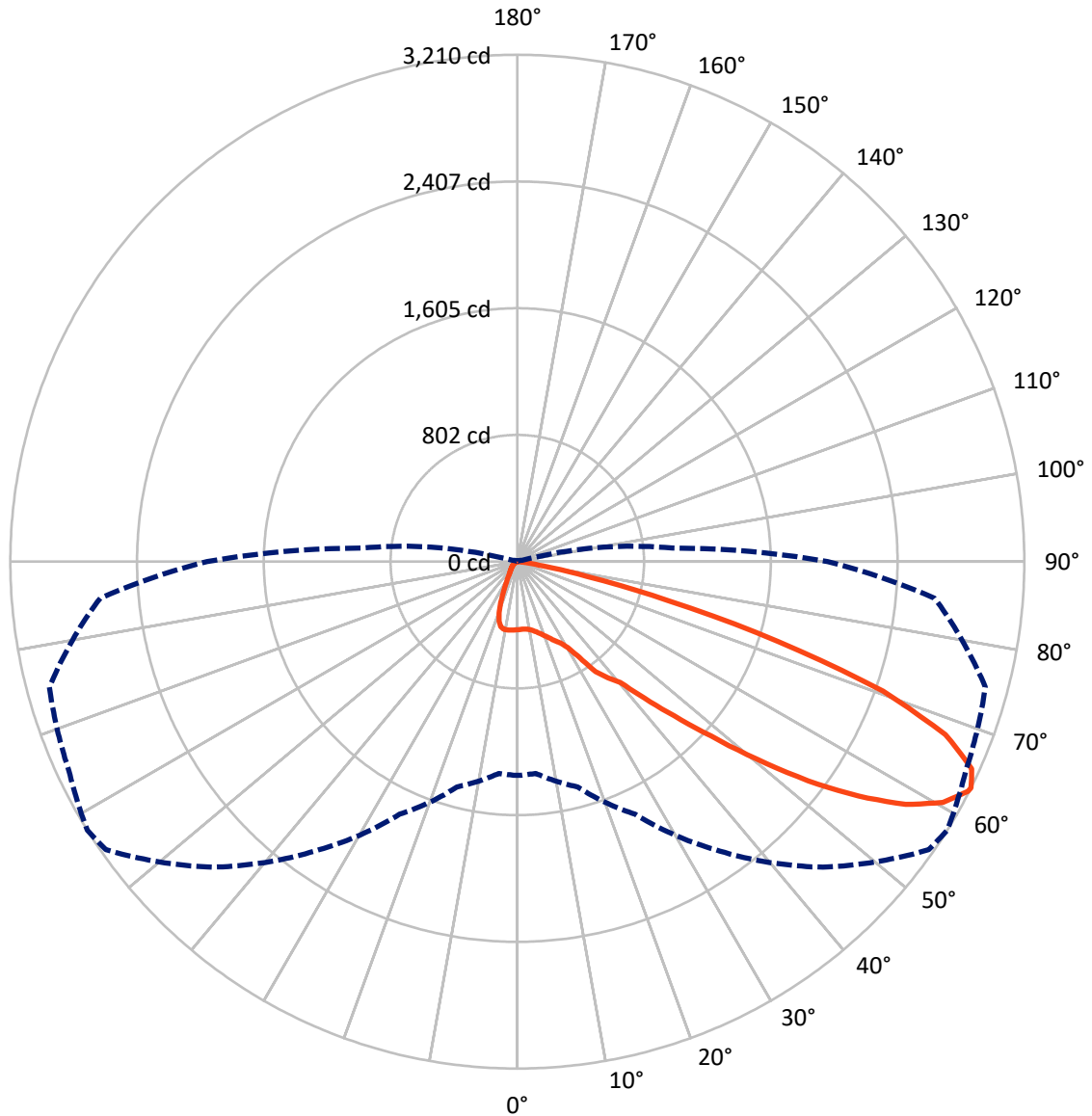
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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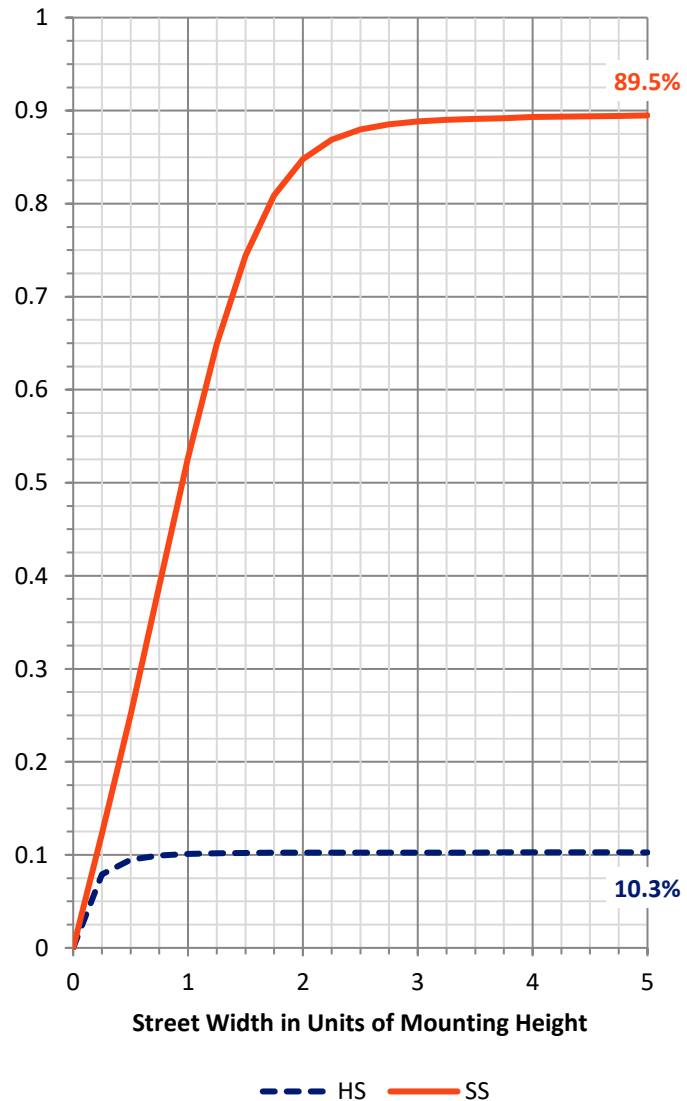
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	398.6	0.0	398.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	3451.4	0.0	3451.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	3850.0	0.0	3850.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	1.0
10°-20°	109.9	2.9
20°-30°	190.7	5.0
30°-40°	350.5	9.1
40°-50°	659.8	17.1
50°-60°	1128.5	29.3
60°-70°	1080.6	28.1
70°-80°	275.5	7.2
80°-90°	14.1	0.4
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°	3850.0	100.0
0°-180°	3850.0	100.0



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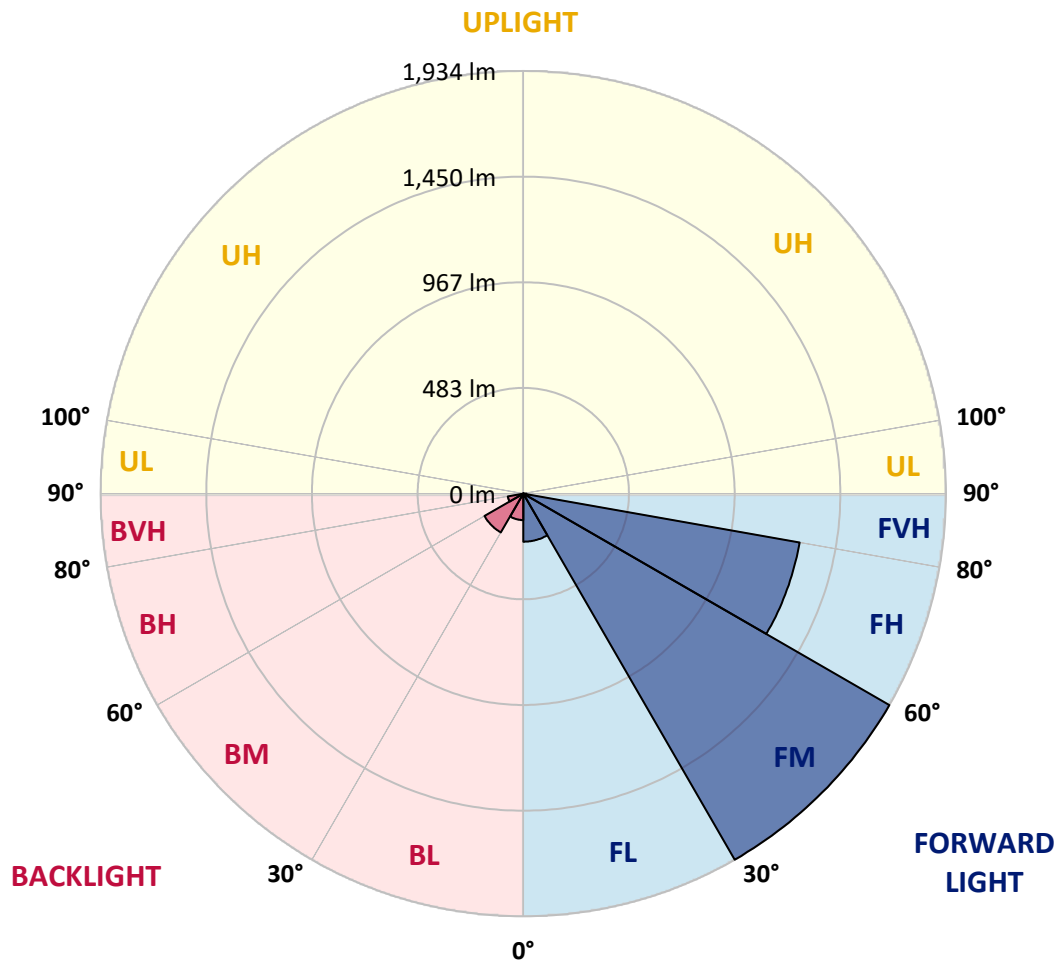
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.1	5.7			
FM (30°-60°)	1933.8	50.2			
FH (60°-80°)	1284.0	33.3			G1/1800
FVH (80°-90°)	13.5	0.4			G1/100
BL (0°-30°)	120.9	3.1	B1/500		
BM (30°-60°)	205.0	5.3	B0/220		
BH (60°-80°)	72.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
2.5°	420.3	421.7	423.2	423.8	425.8	427.8	429.3	429.0	431.3	432.5	432.5
5°	403.5	403.5	407.3	410.7	416.5	422.3	427.8	429.0	433.3	437.4	438.8
7.5°	389.3	390.2	393.1	399.4	407.3	417.4	428.4	431.0	438.6	447.5	451.3
10°	382.6	383.2	387.0	393.6	403.5	417.4	432.8	437.7	449.3	463.5	468.7
12.5°	381.2	382.0	385.8	393.3	404.6	421.5	442.3	447.5	464.4	482.6	490.4
15°	383.8	384.4	388.1	396.2	408.7	428.7	455.1	462.3	482.3	503.5	513.6
17.5°	393.1	392.5	395.1	401.7	415.7	437.7	470.4	479.1	502.6	531.6	538.3
20°	432.5	428.7	426.4	420.6	426.1	450.4	489.0	501.7	530.7	560.3	564.9
22.5°	517.4	509.0	492.5	469.9	452.5	467.8	511.3	526.1	563.5	592.5	592.5
25°	625.5	614.8	598.3	549.0	506.4	496.5	536.5	555.1	599.1	628.4	618.9
27.5°	760.9	752.5	720.3	662.9	597.7	546.7	565.8	582.9	630.7	666.1	646.1
30°	871.0	867.0	840.6	789.3	717.4	642.9	620.3	631.6	672.8	713.6	693.1
32.5°	964.1	964.1	937.1	889.3	822.0	756.0	712.8	720.9	760.3	807.6	769.3
35°	1066.4	1062.9	1041.2	995.7	920.3	862.0	844.4	855.4	891.0	926.1	831.9
37.5°	1173.9	1172.8	1150.2	1106.1	1044.7	971.3	929.9	932.8	951.0	972.5	905.2
40°	1290.7	1292.5	1262.9	1235.7	1177.7	1102.6	1023.2	1004.9	1022.0	1082.6	1040.6
42.5°	1428.7	1424.7	1411.9	1374.8	1328.1	1283.2	1187.8	1181.2	1196.3	1261.2	1215.7
45°	1589.0	1594.8	1572.8	1552.2	1520.9	1483.5	1403.8	1392.2	1408.7	1509.6	1445.0
47.5°	1749.6	1744.1	1758.3	1754.5	1771.3	1743.5	1673.1	1649.3	1689.0	1784.7	1689.6
50°	1871.9	1878.0	1907.6	1950.8	2022.9	2038.6	1971.1	1962.9	1980.6	2042.1	1908.4
52.5°	1951.3	1971.6	2018.0	2129.0	2259.2	2360.3	2309.0	2304.7	2297.4	2314.0	2117.7
55°	2003.2	2023.8	2084.4	2247.9	2471.9	2636.3	2638.9	2620.3	2572.5	2560.6	2313.4
57.5°	1971.3	1975.4	2061.8	2280.3	2589.9	2833.1	2918.3	2899.8	2811.4	2766.4	2486.1
60°	1771.9	1780.3	1900.6	2157.4	2538.6	2897.4	3103.5	3095.1	2998.3	2947.6	2620.6
62.5°	1418.6	1442.9	1566.7	1853.1	2300.0	2789.0	3178.6	3202.4	3127.0	3057.2	2662.9
63°	1353.6	1345.8	1476.5	1764.4	2236.9	2735.4	3179.8	3209.9	3132.8	3067.6	2651.4
65°	1002.0	1025.5	1110.5	1391.3	1861.5	2485.8	3108.2	3161.5	3111.4	3021.5	2522.9
67.5°	562.6	561.5	655.4	910.5	1302.9	1949.9	2810.5	2923.2	2912.8	2711.4	2091.3
70°	275.4	279.7	318.3	471.9	755.7	1345.2	2335.4	2457.1	2460.9	2129.6	1446.1
72.5°	124.6	126.7	154.2	229.9	388.4	716.2	1609.3	1725.5	1704.1	1357.1	798.6
75°	65.8	70.1	84.9	115.7	187.2	295.4	875.4	987.8	942.9	620.0	293.9
77.5°	48.7	50.1	57.7	73.6	100.3	115.1	377.7	449.3	420.9	224.4	97.4
80°	35.7	36.8	42.9	52.2	63.2	58.6	142.3	163.2	146.4	76.2	29.9
82.5°	21.7	22.0	31.3	38.8	39.7	32.8	47.0	50.4	52.8	42.9	16.2
85°	7.8	9.9	21.2	28.1	23.5	16.5	19.7	21.7	23.8	27.2	9.6
87.5°	0.9	1.2	10.1	13.6	6.7	6.1	7.2	8.1	8.7	10.1	4.6
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°	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
2.5°	433.6	434.8	433.9	432.5	432.2	431.3	429.6	429.6	429.6	430.2	429.6
5°	440.0	440.9	438.8	436.0	432.8	428.7	424.4	421.7	421.5	420.9	419.4
7.5°	452.2	453.3	448.7	441.7	433.1	423.2	413.9	405.2	401.2	398.0	398.0
10°	469.9	471.0	461.7	449.3	431.9	411.9	389.9	369.9	354.2	347.0	345.2
12.5°	491.0	491.6	476.2	454.5	425.8	387.3	340.3	296.5	266.1	252.2	250.7
15°	514.2	510.2	489.9	456.5	408.4	336.5	255.4	201.7	170.1	160.9	164.4
17.5°	537.7	530.2	500.3	453.3	369.3	255.4	171.6	137.7	127.8	125.2	125.2
20°	559.7	549.3	507.8	439.4	301.5	175.9	127.2	119.1	117.4	115.7	115.9
22.5°	581.7	565.8	514.5	408.4	224.6	125.8	113.9	111.3	109.0	106.7	106.4
25°	603.2	581.2	517.1	351.0	153.0	108.1	104.1	100.6	95.9	93.3	92.8
27.5°	625.5	599.7	515.4	278.6	111.6	96.8	92.8	87.8	82.3	77.7	77.7
30°	668.4	635.1	509.3	200.3	93.9	85.2	80.0	72.2	66.1	61.5	61.2
32.5°	727.0	681.2	488.4	140.9	83.5	75.1	67.2	58.6	52.2	48.7	48.7
35°	779.1	727.5	449.3	103.8	75.1	65.2	55.7	47.2	42.3	40.0	39.1
37.5°	858.6	795.4	395.4	84.3	67.0	56.5	46.7	38.8	34.8	33.0	33.0
40°	977.7	878.3	329.3	73.9	59.1	48.1	38.8	32.8	29.6	27.5	27.5
42.5°	1125.5	979.7	262.3	66.4	51.9	41.5	32.5	27.8	24.9	23.5	23.2
45°	1311.6	1086.7	202.0	59.4	46.1	35.4	27.5	23.5	20.6	19.7	20.0
47.5°	1505.8	1180.9	156.5	53.3	40.0	29.9	23.5	20.3	18.3	17.1	17.1
50°	1671.6	1245.8	118.8	46.4	35.4	25.2	20.6	18.3	16.5	15.9	15.7
52.5°	1810.2	1264.7	91.0	40.3	31.0	21.7	18.3	16.5	15.1	14.2	14.2
55°	1928.2	1248.1	71.3	33.9	26.1	18.8	16.2	14.8	13.0	12.2	11.9
57.5°	1997.1	1195.1	54.5	28.1	21.2	15.7	14.2	12.5	10.4	9.0	9.0
60°	2031.9	1118.0	41.7	23.2	16.2	12.5	11.6	9.3	7.2	6.1	5.8
62.5°	1990.2	1015.7	31.6	18.3	12.2	9.3	7.8	6.7	4.6	3.5	3.5
63°	1964.4	986.1	30.4	17.4	11.3	8.7	7.2	6.1	4.1	3.2	2.9
65°	1790.8	857.1	24.9	13.9	9.0	6.1	4.9	4.3	2.9	1.4	1.2
67.5°	1422.1	655.7	19.7	10.4	6.4	4.3	2.9	2.6	0.9	0.0	0.0
70°	961.5	423.5	15.4	7.5	4.3	2.6	1.4	1.2	0.3	0.0	0.0
72.5°	501.5	217.1	11.9	5.5	2.6	1.7	0.9	0.3	0.0	0.0	0.0
75°	177.4	73.9	8.7	3.5	1.7	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	53.6	27.5	5.5	2.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	18.8	10.1	3.2	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	4.9	2.0	1.4	0.9	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.2	3.2	1.7	1.4	0.9	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.3	1.7	1.4	1.2	0.6	0.3	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)