

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: P450936

Luminaire Tested: **GALN-SA1D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450936  
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-SA1D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA 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: 5234 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

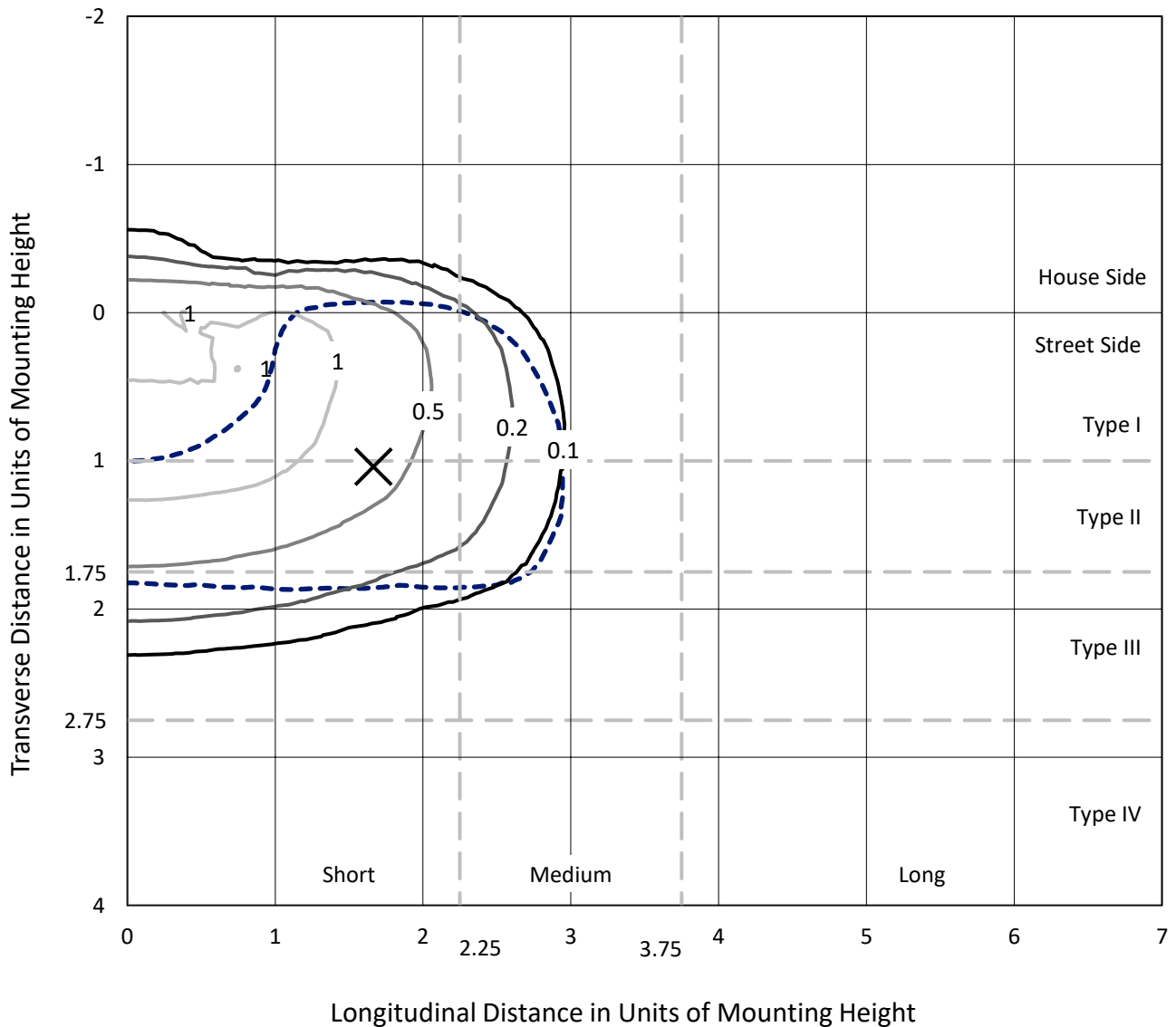
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

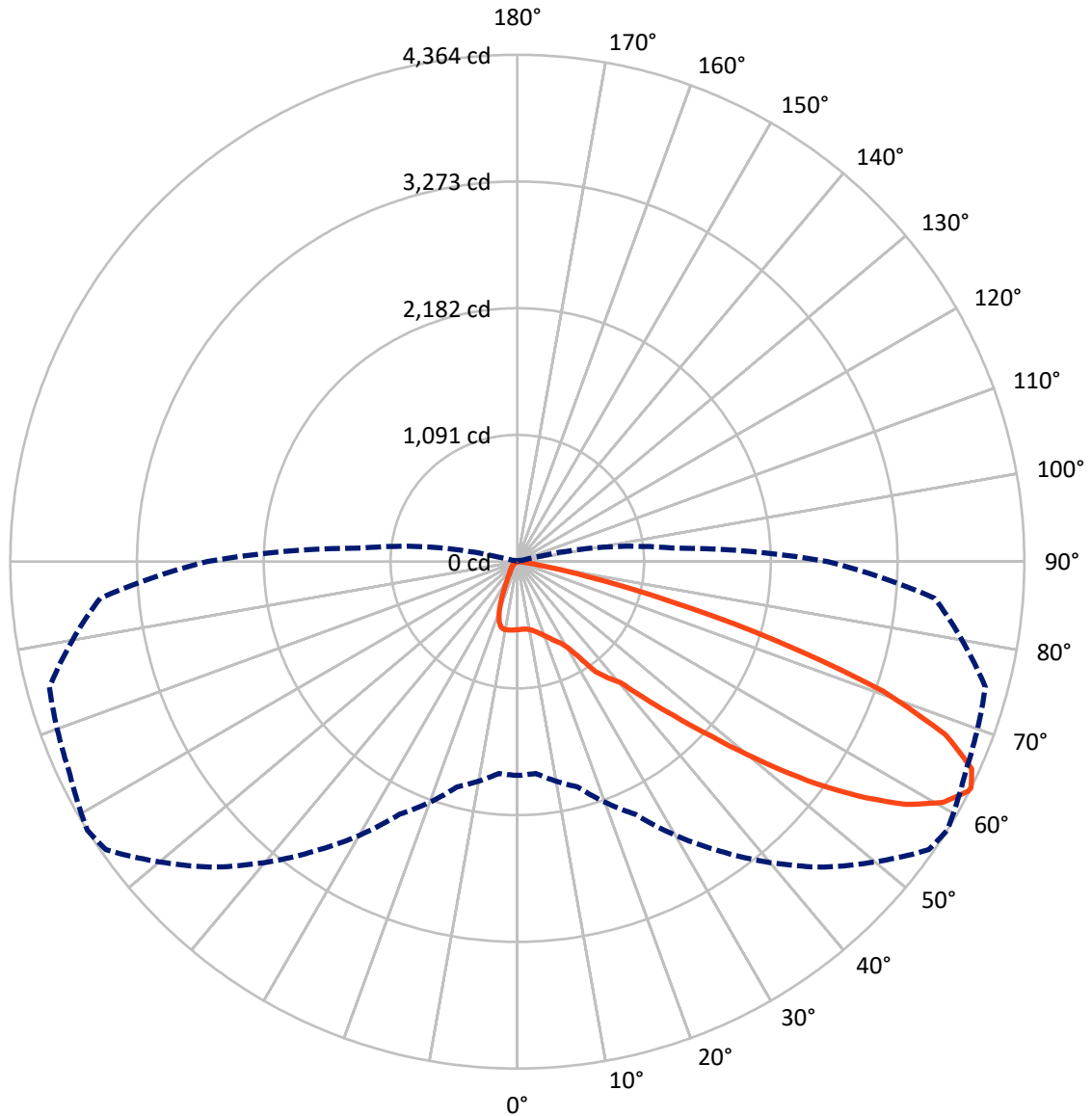
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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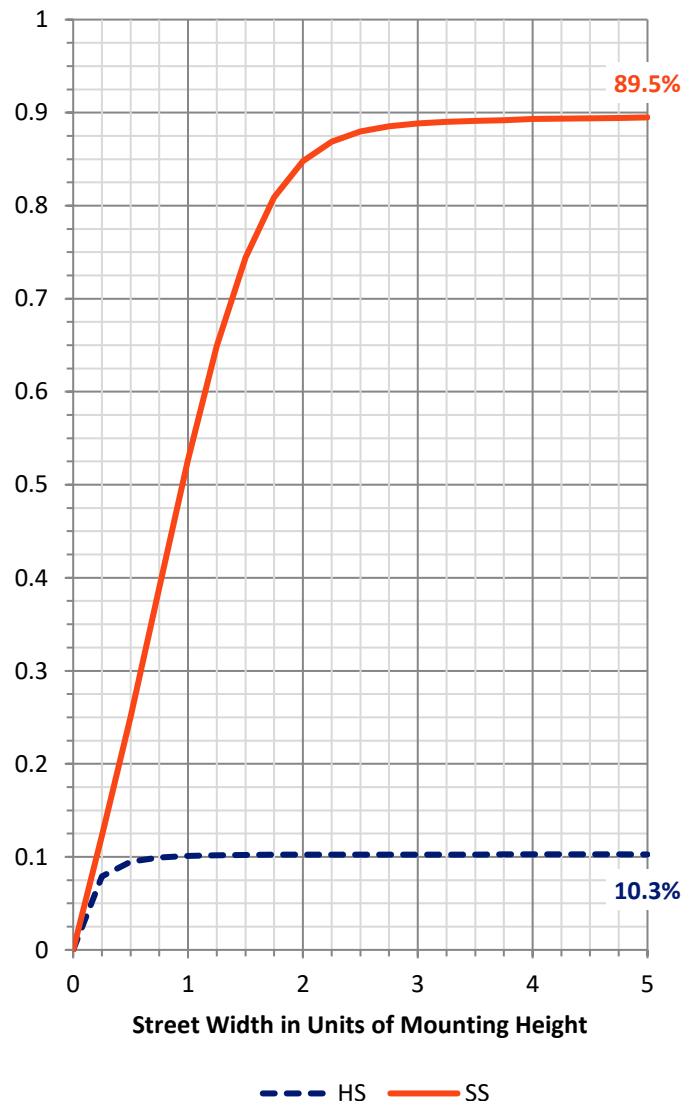
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	542.0	0.0	542.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	4692.0	0.0	4692.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5234.0	0.0	5234.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	1.0
10°-20°	149.4	2.9
20°-30°	259.3	5.0
30°-40°	476.5	9.1
40°-50°	897.0	17.1
50°-60°	1534.2	29.3
60°-70°	1469.0	28.1
70°-80°	374.6	7.2
80°-90°	19.2	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°	5234.0	100.0
0°-180°	5234.0	100.0



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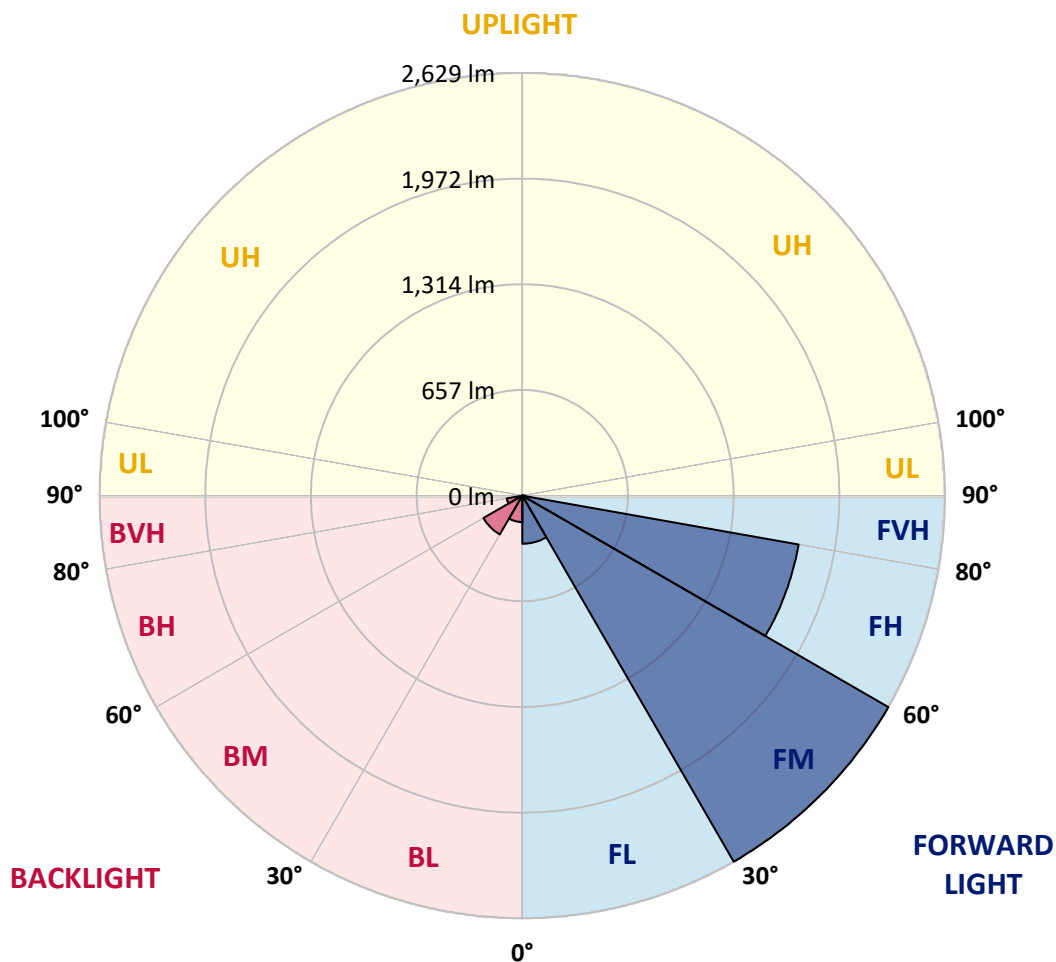
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.2	5.7			
FM	(30°-60°)	2628.9	50.2			
FH	(60°-80°)	1745.5	33.3			G1/1800
FVH	(80°-90°)	18.4	0.4			G1/100
BL	(0°-30°)	164.4	3.1	B1/500		
BM	(30°-60°)	278.7	5.3	B1/1000		
BH	(60°-80°)	98.1	1.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	571.4	573.4	575.3	576.1	578.9	581.6	583.6	583.2	586.4	587.9	587.9
5°	548.5	548.5	553.7	558.4	566.3	574.1	581.6	583.2	589.1	594.6	596.6
7.5°	529.2	530.4	534.3	543.0	553.7	567.4	582.4	586.0	596.2	608.4	613.6
10°	520.2	520.9	526.1	535.1	548.5	567.4	588.3	595.0	610.8	630.1	637.2
12.5°	518.2	519.4	524.5	534.7	550.1	573.0	601.3	608.4	631.3	656.1	666.7
15°	521.7	522.5	527.6	538.7	555.6	582.8	618.7	628.5	655.7	684.5	698.3
17.5°	534.3	533.6	537.1	546.2	565.1	595.0	639.6	651.4	683.3	722.7	731.8
20°	587.9	582.8	579.7	571.8	579.3	612.4	664.8	682.1	721.5	761.7	768.0
22.5°	703.4	692.0	669.5	638.8	615.1	636.0	695.1	715.2	766.1	805.5	805.5
25°	850.4	835.8	813.3	746.3	688.4	675.0	729.4	754.6	814.5	854.3	841.3
27.5°	1034.4	1023.0	979.2	901.2	812.6	743.2	769.2	792.5	857.5	905.5	878.4
30°	1184.1	1178.6	1142.8	1073.0	975.3	874.0	843.3	858.7	914.6	970.2	942.2
32.5°	1310.6	1310.6	1274.0	1209.0	1117.6	1027.7	969.0	980.0	1033.6	1097.8	1045.8
35°	1449.7	1445.0	1415.5	1353.6	1251.1	1171.9	1147.9	1162.9	1211.3	1259.0	1131.0
37.5°	1595.9	1594.4	1563.6	1503.7	1420.2	1320.5	1264.1	1268.1	1292.9	1322.1	1230.6
40°	1754.7	1757.1	1716.9	1679.9	1601.1	1499.0	1391.0	1366.2	1389.5	1471.8	1414.7
42.5°	1942.3	1936.8	1919.5	1869.0	1805.6	1744.5	1614.9	1605.8	1626.3	1714.6	1652.7
45°	2160.2	2168.1	2138.2	2110.2	2067.6	2016.8	1908.4	1892.7	1915.1	2052.3	1964.4
47.5°	2378.5	2371.1	2390.4	2385.2	2408.1	2370.3	2274.5	2242.2	2296.2	2426.2	2297.0
50°	2544.8	2553.1	2593.3	2652.0	2750.1	2771.4	2679.6	2668.6	2692.6	2776.1	2594.5
52.5°	2652.8	2680.4	2743.4	2894.4	3071.3	3208.8	3139.1	3133.2	3123.3	3145.8	2879.0
55°	2723.3	2751.3	2833.7	3055.9	3360.5	3584.0	3587.5	3562.3	3497.3	3481.1	3145.0
57.5°	2680.0	2685.5	2802.9	3100.1	3520.9	3851.5	3967.4	3942.2	3822.0	3760.9	3379.8
60°	2408.9	2420.3	2583.8	2933.0	3451.2	3939.0	4219.2	4207.8	4076.2	4007.2	3562.7
62.5°	1928.5	1961.6	2129.9	2519.2	3126.9	3791.6	4321.3	4353.6	4251.1	4156.1	3620.2
63°	1840.3	1829.6	2007.3	2398.6	3041.0	3718.7	4322.8	4363.8	4259.0	4170.3	3604.5
65°	1362.3	1394.2	1509.6	1891.5	2530.7	3379.5	4225.5	4298.0	4229.8	4107.7	3429.9
67.5°	764.9	763.3	891.0	1237.7	1771.3	2650.8	3820.8	3974.1	3959.9	3686.0	2843.1
70°	374.4	380.3	432.7	641.5	1027.3	1828.8	3174.9	3340.4	3345.6	2895.2	1966.0
72.5°	169.4	172.2	209.6	312.5	528.0	973.7	2187.8	2345.8	2316.7	1845.0	1085.6
75°	89.5	95.4	115.5	157.2	254.6	401.5	1190.1	1343.0	1281.9	842.9	399.6
77.5°	66.2	68.2	78.4	100.1	136.3	156.4	513.5	610.8	572.2	305.0	132.4
80°	48.5	50.0	58.3	70.9	85.9	79.6	193.5	221.9	199.0	103.6	40.6
82.5°	29.6	29.9	42.6	52.8	54.0	44.5	63.8	68.6	71.7	58.3	22.1
85°	10.6	13.4	28.8	38.2	31.9	22.5	26.8	29.6	32.3	37.0	13.0
87.5°	1.2	1.6	13.8	18.5	9.1	8.3	9.9	11.0	11.8	13.8	6.3
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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	589.5	591.1	589.9	587.9	587.5	586.4	584.0	584.0	584.0	584.8	584.0
5°	598.2	599.4	596.6	592.7	588.3	582.8	576.9	573.4	573.0	572.2	570.2
7.5°	614.7	616.3	610.0	600.5	588.7	575.3	562.7	550.9	545.4	541.0	541.0
10°	638.8	640.3	627.7	610.8	587.1	560.0	530.0	502.8	481.5	471.7	469.3
12.5°	667.5	668.3	647.4	617.9	578.9	526.5	462.6	403.1	361.7	342.8	340.9
15°	699.1	693.5	666.0	620.6	555.2	457.5	347.2	274.3	231.3	218.7	223.4
17.5°	731.0	720.7	680.1	616.3	502.0	347.2	233.3	187.2	173.8	170.2	170.2
20°	760.9	746.7	690.4	597.4	409.8	239.2	173.0	162.0	159.6	157.2	157.6
22.5°	790.9	769.2	699.5	555.2	305.4	171.0	154.9	151.3	148.2	145.0	144.6
25°	820.0	790.1	703.0	477.2	208.1	147.0	141.5	136.7	130.4	126.9	126.1
27.5°	850.4	815.3	700.6	378.7	151.7	131.6	126.1	119.4	111.9	105.6	105.6
30°	908.7	863.4	692.4	272.3	127.7	115.9	108.8	98.1	89.8	83.5	83.1
32.5°	988.3	926.0	664.0	191.5	113.5	102.1	91.4	79.6	70.9	66.2	66.2
35°	1059.2	989.1	610.8	141.1	102.1	88.7	75.7	64.2	57.5	54.4	53.2
37.5°	1167.2	1081.3	537.5	114.7	91.0	76.8	63.4	52.8	47.3	44.9	44.9
40°	1329.2	1194.0	447.7	100.5	80.4	65.4	52.8	44.5	40.2	37.4	37.4
42.5°	1530.1	1331.9	356.6	90.2	70.5	56.4	44.1	37.8	33.9	31.9	31.5
45°	1783.1	1477.3	274.7	80.8	62.7	48.1	37.4	31.9	28.0	26.8	27.2
47.5°	2047.1	1605.4	212.8	72.5	54.4	40.6	31.9	27.6	24.8	23.2	23.2
50°	2272.5	1693.7	161.6	63.0	48.1	34.3	28.0	24.8	22.5	21.7	21.3
52.5°	2460.9	1719.3	123.7	54.8	42.2	29.6	24.8	22.5	20.5	19.3	19.3
55°	2621.3	1696.8	96.9	46.1	35.5	25.6	22.1	20.1	17.7	16.6	16.2
57.5°	2715.1	1624.7	74.1	38.2	28.8	21.3	19.3	16.9	14.2	12.2	12.2
60°	2762.4	1519.9	56.7	31.5	22.1	16.9	15.8	12.6	9.9	8.3	7.9
62.5°	2705.6	1380.8	43.0	24.8	16.6	12.6	10.6	9.1	6.3	4.7	4.7
63°	2670.5	1340.6	41.4	23.6	15.4	11.8	9.9	8.3	5.5	4.3	3.9
65°	2434.5	1165.2	33.9	18.9	12.2	8.3	6.7	5.9	3.9	2.0	1.6
67.5°	1933.3	891.4	26.8	14.2	8.7	5.9	3.9	3.5	1.2	0.0	0.0
70°	1307.1	575.7	20.9	10.2	5.9	3.5	2.0	1.6	0.4	0.0	0.0
72.5°	681.7	295.2	16.2	7.5	3.5	2.4	1.2	0.4	0.0	0.0	0.0
75°	241.2	100.5	11.8	4.7	2.4	1.2	0.4	0.0	0.0	0.0	0.0
77.5°	72.9	37.4	7.5	3.5	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	25.6	13.8	4.3	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	6.7	2.8	2.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.1	4.3	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	3.2	2.4	2.0	1.6	0.8	0.4	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)