

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: P652421

Luminaire Tested: **GALN-SA5B-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652421  
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-SA5B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17336.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

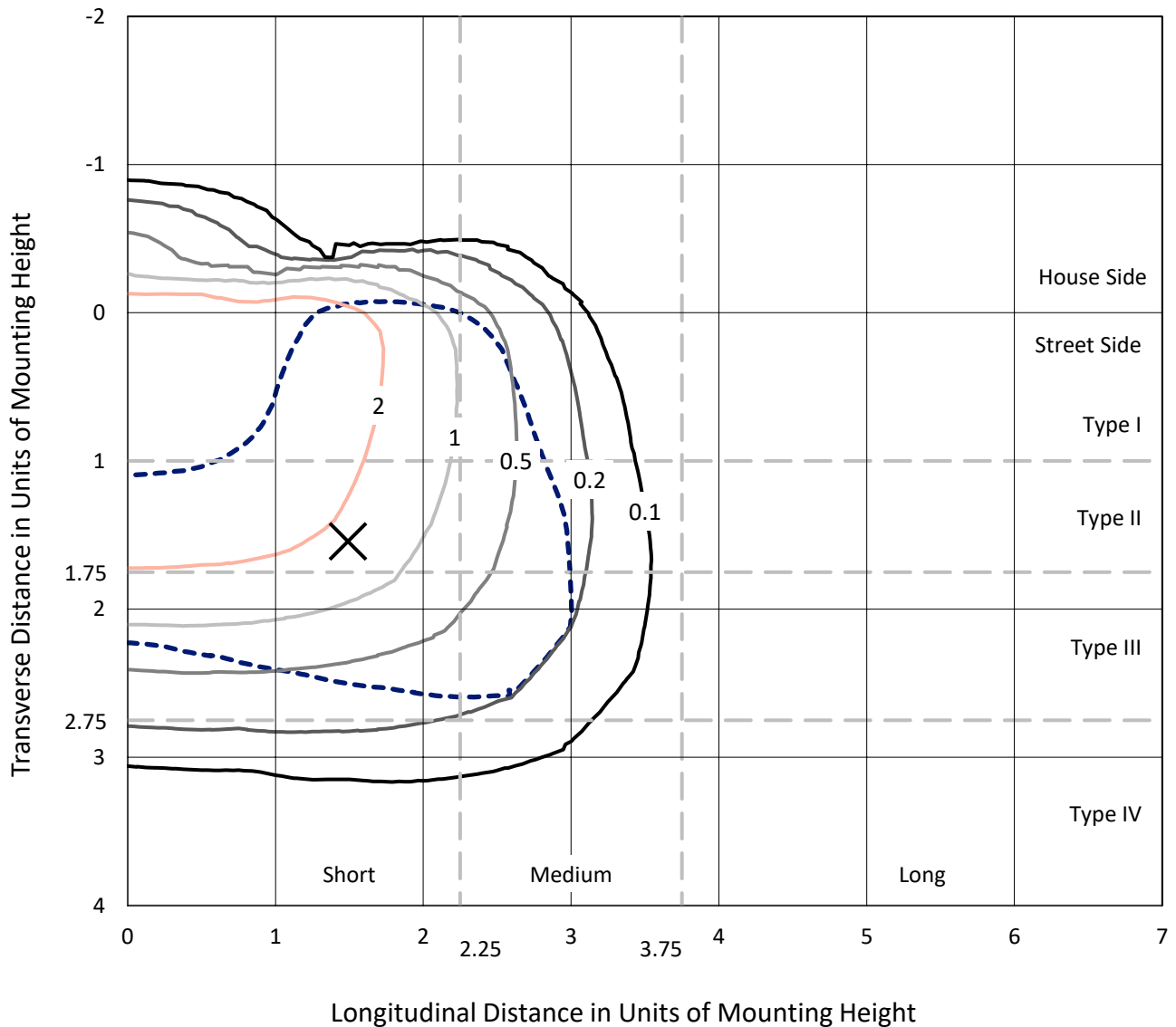
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

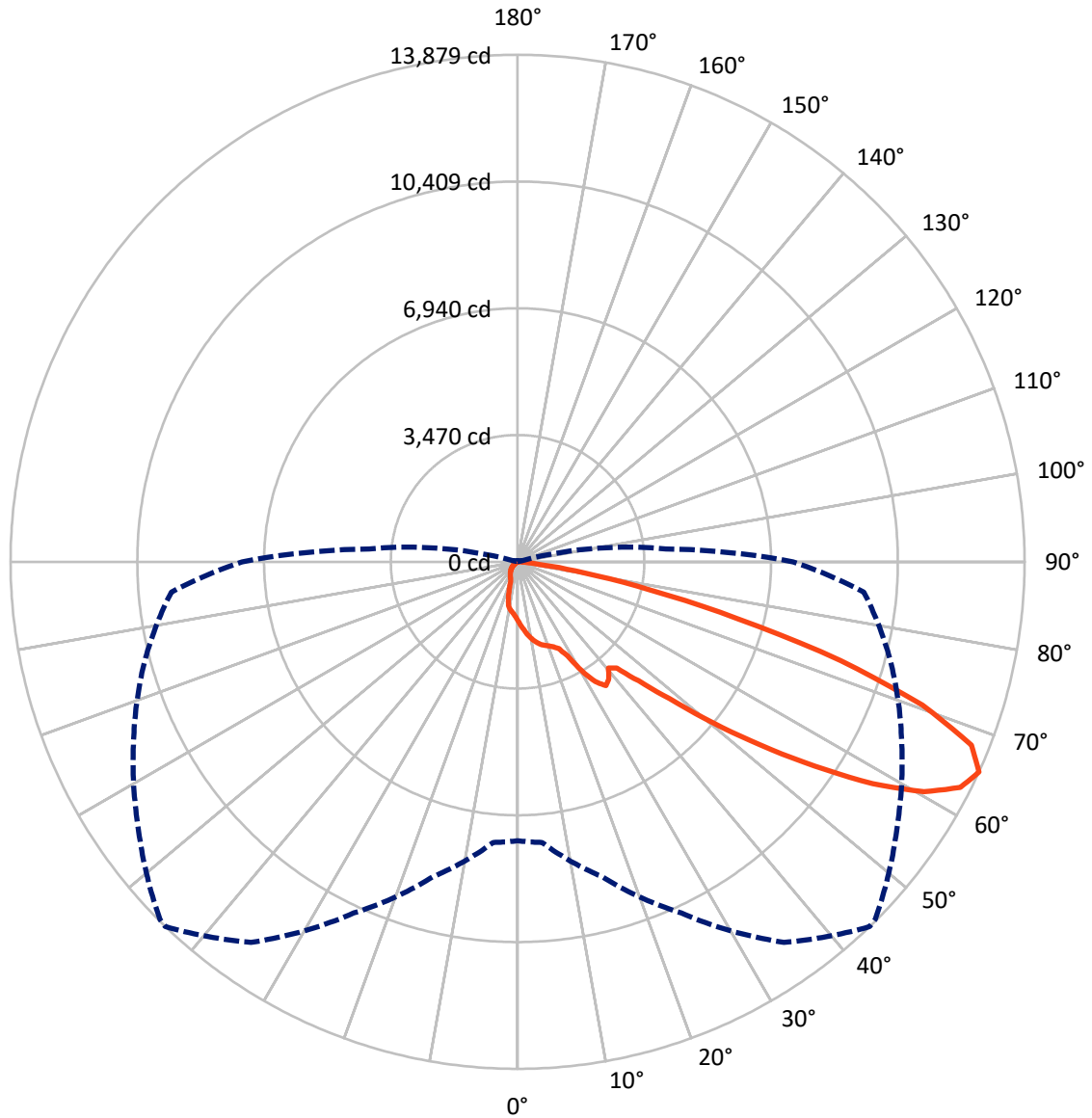
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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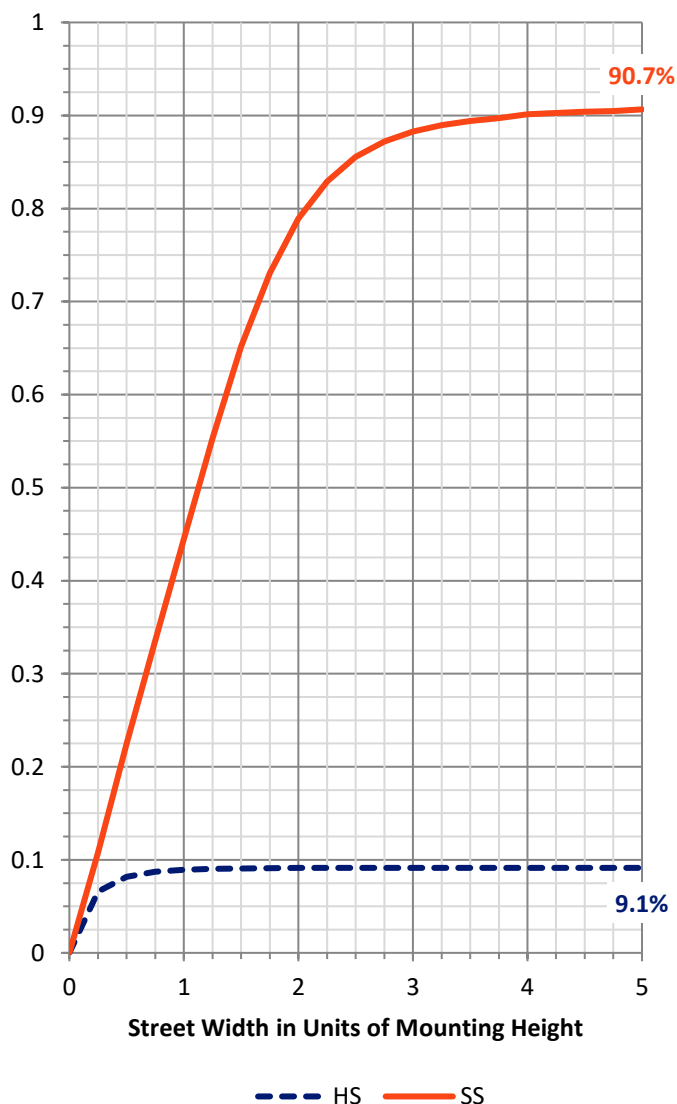
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1597.3	0.0	1597.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	15739.1	0.0	15739.1
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	17336.4	0.0	17336.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	0.9
10°-20°	483.0	2.8
20°-30°	819.0	4.7
30°-40°	1361.7	7.9
40°-50°	2377.5	13.7
50°-60°	4644.9	26.8
60°-70°	5389.1	31.1
70°-80°	1962.5	11.3
80°-90°	138.3	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°	17336.4	100.0
0°-180°	17336.4	100.0

**Coefficient of Utilization**

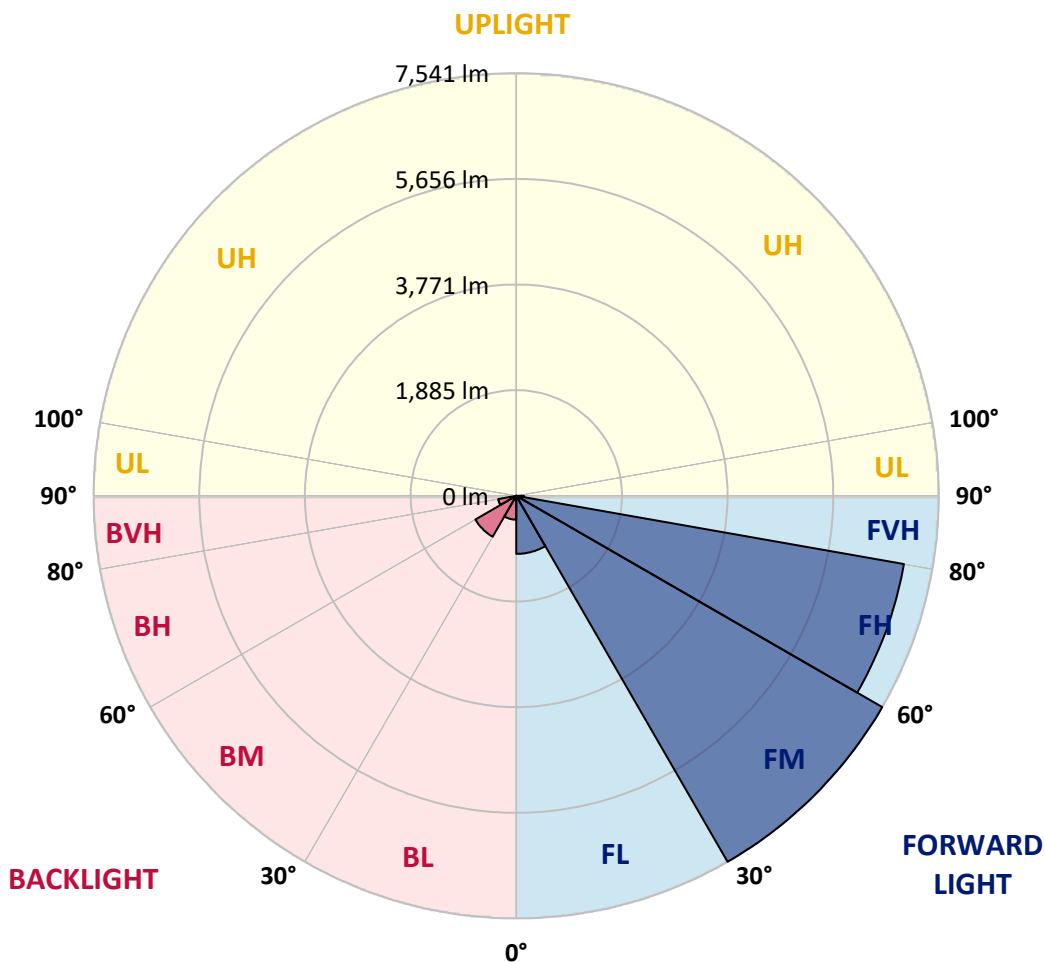


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.9	6.0			
FM (30°-60°)	7541.4	43.5			
FH (60°-80°)	7024.5	40.5			G3/7500
FVH (80°-90°)	136.4	0.8			G2/225
BL (0°-30°)	425.6	2.5	B1/500		
BM (30°-60°)	842.7	4.9	B1/1000		
BH (60°-80°)	327.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1816.1	1808.2	1804.3	1783.1	1767.2	1747.3	1747.3	1722.1	1693.0	1661.2	1632.0
5°	2018.8	2005.6	1988.4	1969.9	1932.8	1879.8	1879.8	1826.7	1765.8	1711.5	1651.9
7.5°	2213.6	2201.7	2172.6	2136.7	2075.8	2020.2	2016.2	1939.3	1866.5	1784.3	1699.6
10°	2384.5	2375.2	2350.0	2281.1	2217.5	2144.7	2143.4	2057.3	1972.5	1871.8	1767.2
12.5°	2503.7	2505.0	2472.0	2405.7	2323.5	2254.6	2249.3	2164.6	2075.8	1967.2	1838.7
15°	2588.5	2588.5	2554.0	2479.9	2405.7	2344.7	2339.4	2265.2	2173.8	2056.0	1916.9
17.5°	2612.3	2620.3	2583.2	2516.9	2457.3	2404.3	2403.0	2340.8	2267.9	2154.0	1996.4
20°	2603.1	2611.0	2581.9	2530.2	2489.1	2458.7	2454.7	2429.5	2361.9	2254.6	2081.1
22.5°	2583.2	2591.1	2569.9	2539.5	2519.6	2528.9	2522.2	2543.4	2507.7	2377.8	2181.8
25°	2587.2	2595.1	2579.2	2562.0	2579.2	2636.2	2653.4	2744.8	2713.0	2534.2	2290.5
27.5°	2711.7	2727.6	2705.1	2713.0	2774.0	2906.4	2939.5	3097.2	2956.8	2732.9	2460.0
30°	2988.6	2978.0	2935.6	2973.9	3186.0	3466.8	3457.5	3432.3	3212.5	2962.1	2661.3
32.5°	3240.2	3231.0	3228.3	3393.9	3778.1	3914.5	3907.9	3664.2	3441.6	3224.3	2860.1
35°	3342.2	3306.5	3298.6	3699.9	4342.4	4162.3	4121.2	3759.5	3719.8	3510.5	3062.8
37.5°	3649.6	3624.4	3501.3	3750.3	4117.2	4057.6	4025.8	3923.8	4016.5	3763.5	3291.9
40°	4282.8	4212.6	4101.3	3857.6	3798.0	3823.1	3854.9	4134.4	4367.6	4109.3	3597.9
42.5°	5069.6	5053.7	4847.1	4392.7	3946.3	3980.8	4021.8	4574.2	4872.2	4629.9	4097.4
45°	6014.2	6036.7	5738.6	5202.2	4616.6	4645.8	4705.4	5223.4	5555.8	5439.3	4882.9
47.5°	6872.6	6855.4	6754.7	6197.0	5656.5	5591.6	5688.4	6056.5	6501.7	6520.3	5857.9
50°	7736.4	7827.7	7678.0	7459.4	7058.1	6921.6	6885.9	7066.0	7744.3	7655.5	7028.9
52.5°	8977.6	9025.3	8744.5	8688.8	8780.2	8337.8	8301.9	8345.7	8952.4	8647.8	7905.9
55°	9757.9	9730.0	9625.3	10059.9	10421.5	9869.1	9824.1	9647.9	9955.3	9348.5	8749.8
57.5°	10004.2	10044.0	10287.7	11073.3	11929.0	11460.1	11378.0	10877.2	10678.5	10001.6	9526.0
60°	9894.3	9967.1	10493.1	11661.5	12848.4	12778.2	12707.9	11866.8	11197.8	10547.3	10070.5
62.5°	9111.4	9213.4	10054.6	11556.8	13159.7	13598.1	13510.7	12484.1	11543.6	10812.3	10165.8
65°	7635.6	7711.1	8919.3	10606.9	12717.3	13879.0	13847.2	12677.5	11597.9	10569.9	9512.7
67.5°	5443.2	5700.2	6819.6	8939.2	11408.4	13399.5	13453.8	12445.7	11087.8	9522.1	7878.1
70°	3421.7	3596.6	4399.4	6399.7	9145.8	11755.5	11934.3	11384.6	9622.7	7422.3	5273.7
72.5°	1632.0	1761.9	2334.1	4050.9	6455.3	9249.1	9390.9	9345.9	7440.9	4676.2	2721.0
75°	727.3	776.2	1114.1	2067.9	4167.6	6216.8	6583.9	6644.7	4649.7	2287.8	1058.5
77.5°	370.9	372.2	521.9	1001.5	2081.1	3709.2	3782.1	3995.3	2520.9	1008.1	368.3
80°	197.4	210.7	276.9	472.9	1079.7	1826.7	1817.5	1997.6	1118.0	494.1	123.2
82.5°	88.7	98.1	156.3	247.8	527.2	692.8	747.1	817.4	479.5	315.3	54.3
85°	26.5	31.8	76.9	124.6	190.7	200.0	223.9	288.8	271.6	223.9	27.8
87.5°	4.0	4.0	31.8	34.5	27.8	35.7	37.1	41.0	87.5	82.2	14.5
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°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1616.1	1606.9	1573.8	1545.9	1522.1	1507.5	1490.3	1479.7	1474.4	1470.4	1471.8
5°	1622.8	1600.3	1543.3	1498.2	1463.8	1426.8	1401.5	1387.0	1380.3	1369.7	1369.7
7.5°	1659.9	1624.1	1544.6	1475.7	1416.1	1365.8	1318.1	1300.9	1288.9	1286.3	1283.6
10°	1712.9	1667.8	1559.2	1463.8	1379.0	1310.1	1242.6	1183.0	1136.6	1108.8	1104.8
12.5°	1779.1	1714.2	1581.7	1455.9	1347.2	1225.3	1046.5	925.9	845.2	820.0	824.0
15°	1840.0	1769.8	1604.2	1449.2	1288.9	1016.1	813.4	675.6	634.5	630.6	631.9
17.5°	1912.9	1829.4	1630.7	1440.0	1128.6	776.2	604.1	567.0	574.9	588.2	586.8
20°	1988.4	1893.0	1662.5	1384.3	900.8	584.2	533.9	537.8	549.8	561.7	564.3
22.5°	2069.2	1965.8	1699.6	1250.6	687.5	508.7	506.0	511.3	523.3	536.5	539.2
25°	2180.5	2057.3	1727.4	1075.6	520.6	470.3	475.6	484.8	495.4	510.0	512.7
27.5°	2323.5	2180.5	1742.0	847.8	450.4	435.8	437.2	450.4	463.6	476.9	476.9
30°	2509.0	2327.6	1712.9	641.2	416.0	402.7	397.4	405.4	422.6	435.8	437.2
32.5°	2674.6	2466.7	1636.0	490.1	390.8	372.2	359.0	360.3	366.9	374.9	376.2
35°	2840.1	2601.7	1504.9	412.0	364.3	343.1	323.2	312.6	307.3	303.3	307.3
37.5°	3052.2	2770.0	1330.0	374.9	341.8	315.3	287.5	264.9	246.4	234.5	237.2
40°	3325.1	3003.1	1123.3	351.0	320.6	288.8	251.7	222.5	190.7	180.1	174.8
42.5°	3775.4	3356.9	906.1	331.2	299.4	261.0	214.6	174.8	145.7	135.1	137.8
45°	4486.8	3803.3	698.1	310.0	278.2	230.5	180.1	137.8	114.0	108.7	111.3
47.5°	5430.0	4380.9	537.8	286.1	251.7	197.4	141.7	108.7	94.0	92.8	91.4
50°	6317.6	4918.7	449.1	259.6	219.9	164.2	116.6	91.4	82.2	80.8	80.8
52.5°	7120.3	5304.2	365.6	229.2	185.4	135.1	98.1	80.8	72.8	68.9	68.9
55°	7834.3	5555.8	296.7	192.1	145.7	107.3	84.8	72.8	63.6	58.3	56.9
57.5°	8373.5	5586.3	222.5	153.7	108.7	83.4	72.8	63.6	53.0	46.3	43.7
60°	8604.0	5322.7	164.2	116.6	80.8	66.3	58.3	51.6	39.8	33.1	31.8
62.5°	8372.2	4810.0	121.9	88.7	62.2	49.0	41.0	38.4	27.8	19.8	18.6
65°	7541.6	4069.5	96.7	67.5	46.3	35.7	26.5	25.1	17.2	9.3	8.0
67.5°	6042.0	3187.2	76.9	50.4	33.1	23.9	17.2	15.9	9.3	2.7	2.7
70°	3929.1	2037.4	62.2	37.1	21.2	15.9	10.6	8.0	5.3	1.3	0.0
72.5°	1943.4	952.4	50.4	29.2	14.5	8.0	4.0	2.7	4.0	0.0	0.0
75°	753.8	339.1	37.1	19.8	8.0	4.0	2.7	0.0	1.3	0.0	0.0
77.5°	250.4	112.6	22.5	10.6	5.3	2.7	0.0	0.0	0.0	0.0	0.0
80°	92.8	43.7	11.9	6.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	37.1	17.2	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	10.6	5.3	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	8.0	5.3	4.0	2.7	1.3	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)