

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: P647958

Luminaire Tested: **GALN-SA5A-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647958  
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-SA5A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13165.4 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

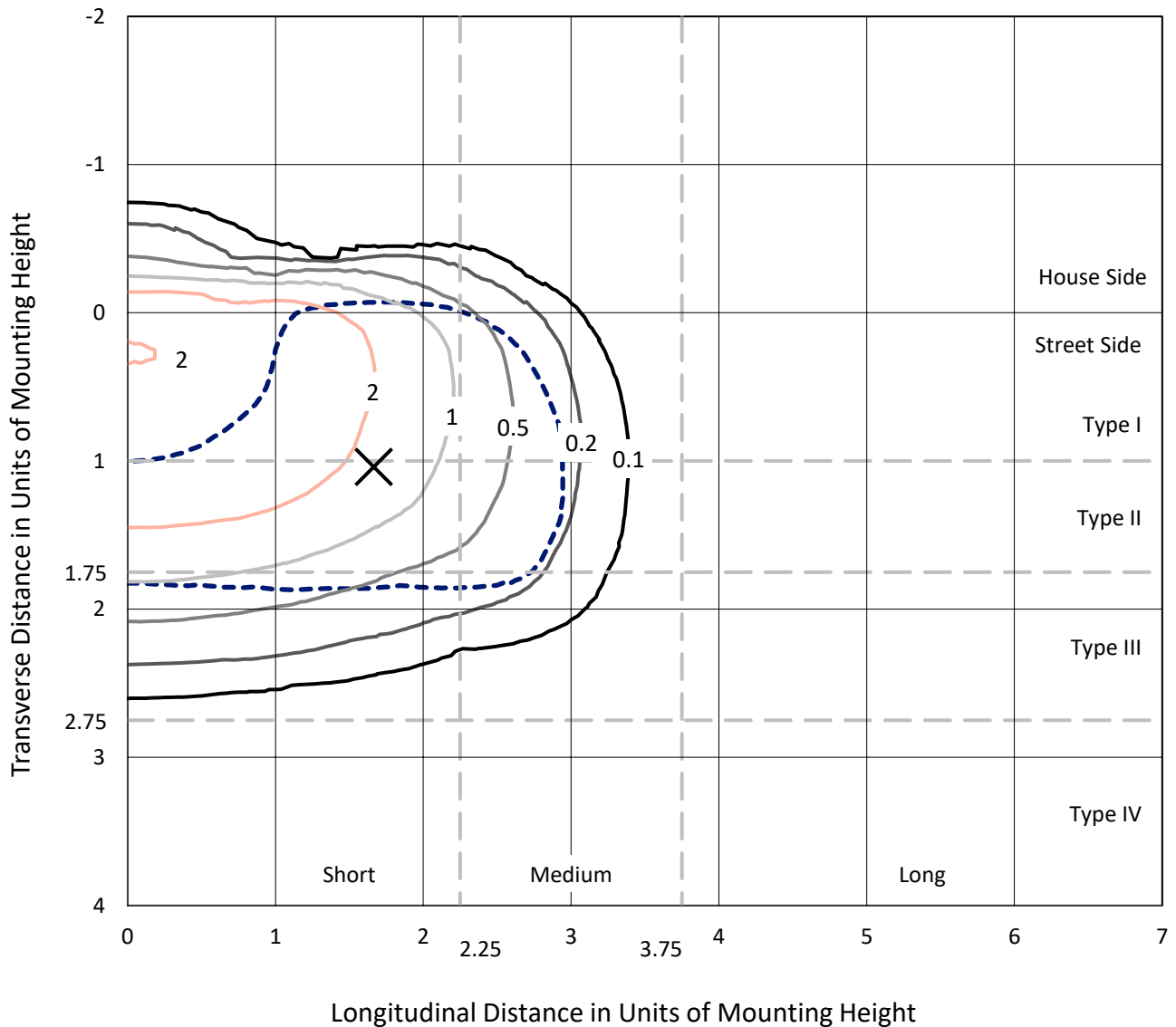
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

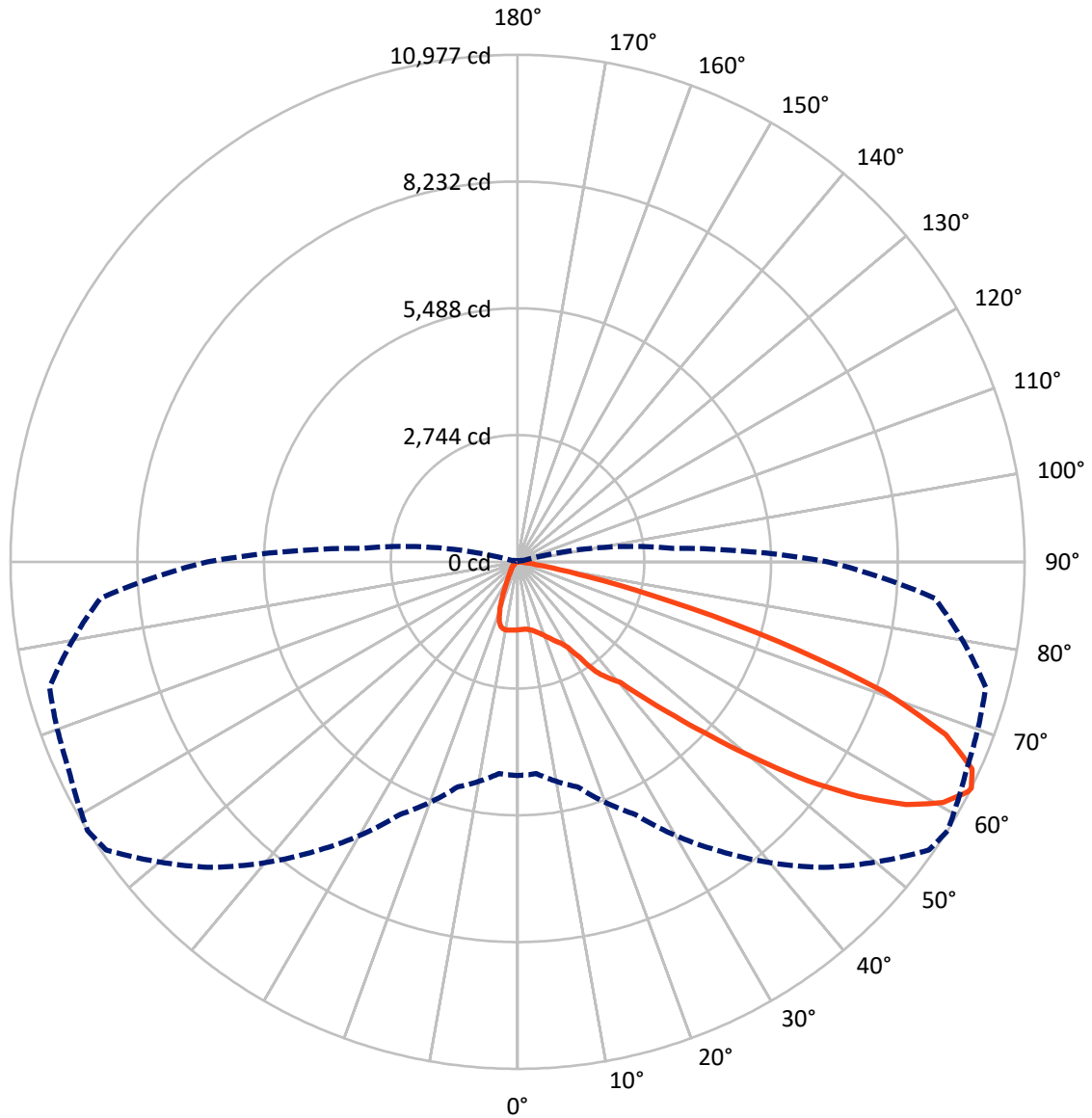
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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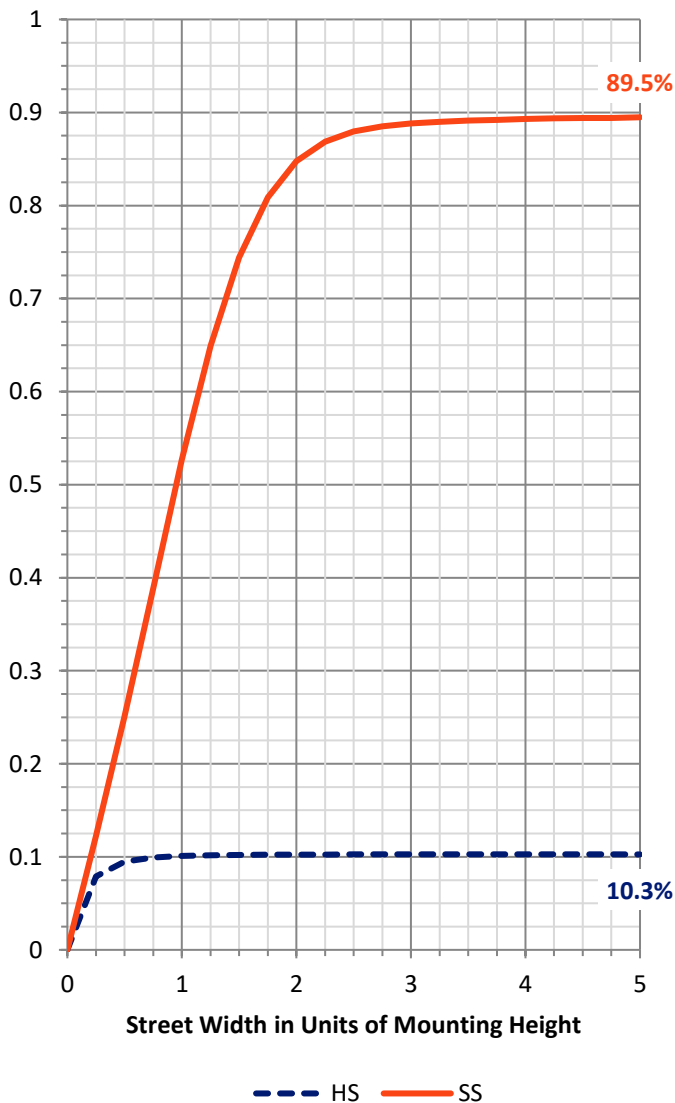
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1363.2	0.0	1363.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	11802.2	0.0	11802.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	13165.4	0.0	13165.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	1.0
10°-20°	375.8	2.9
20°-30°	652.2	5.0
30°-40°	1198.5	9.1
40°-50°	2256.2	17.1
50°-60°	3859.1	29.3
60°-70°	3695.1	28.1
70°-80°	942.3	7.2
80°-90°	48.2	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°	13165.4	100.0
0°-180°	13165.4	100.0

**Coefficient of Utilization**



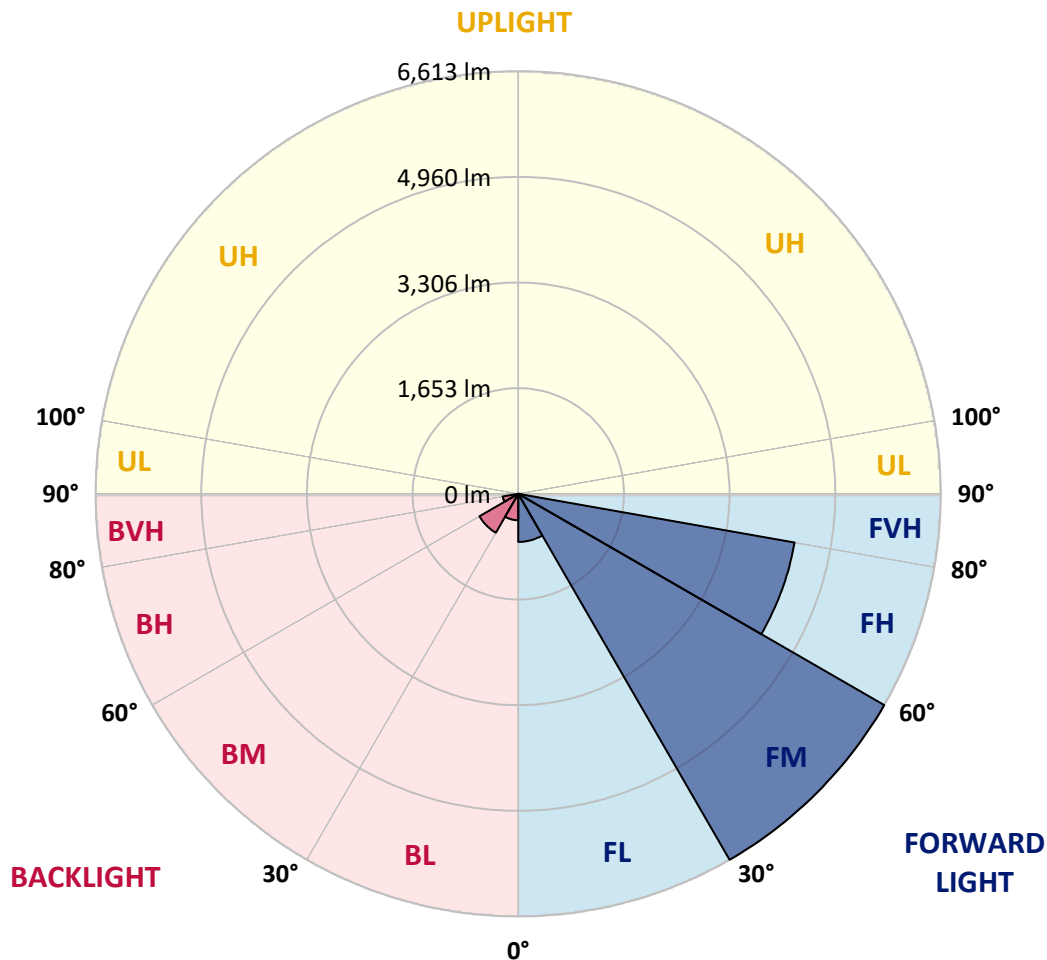
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.6	5.7			
FM (30°-60°)	6612.7	50.2			
FH (60°-80°)	4390.6	33.3			G2/5000
FVH (80°-90°)	46.3	0.4			G1/100
BL (0°-30°)	413.4	3.1	B1/500		
BM (30°-60°)	701.1	5.3	B1/1000		
BH (60°-80°)	246.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1437.3	1442.2	1447.1	1449.1	1456.1	1463.0	1468.0	1467.0	1474.9	1478.9	1478.9
5°	1379.7	1379.7	1392.6	1404.5	1424.4	1444.2	1463.0	1467.0	1481.8	1495.7	1500.7
7.5°	1331.2	1334.2	1344.1	1365.9	1392.6	1427.3	1465.0	1473.9	1499.7	1530.4	1543.3
10°	1308.4	1310.4	1323.3	1346.1	1379.7	1427.3	1479.9	1496.7	1536.3	1584.9	1602.8
12.5°	1303.5	1306.4	1319.3	1345.0	1383.7	1441.2	1512.6	1530.4	1587.9	1650.3	1677.1
15°	1312.4	1314.3	1327.2	1355.0	1397.6	1466.0	1556.2	1581.0	1649.4	1721.7	1756.4
17.5°	1344.1	1342.1	1351.0	1373.8	1421.4	1496.7	1608.8	1638.4	1718.8	1817.9	1840.7
20°	1478.9	1466.0	1458.0	1438.2	1457.1	1540.3	1672.2	1715.8	1814.9	1916.0	1931.8
22.5°	1769.3	1740.5	1684.1	1606.7	1547.3	1599.8	1748.4	1799.0	1926.9	2026.0	2026.0
25°	2139.0	2102.4	2045.8	1877.3	1731.6	1697.9	1834.7	1898.1	2048.8	2148.9	2116.2
27.5°	2601.9	2573.2	2463.2	2266.9	2043.9	1869.4	1934.8	1993.3	2156.9	2277.7	2209.4
30°	2978.5	2964.7	2874.5	2699.0	2453.2	2198.5	2121.1	2159.8	2300.6	2440.3	2370.0
32.5°	3296.7	3296.7	3204.6	3041.0	2811.0	2585.1	2437.3	2465.1	2600.0	2761.5	2630.6
35°	3646.6	3634.8	3560.4	3404.8	3147.0	2947.8	2887.4	2925.1	3047.0	3166.8	2844.7
37.5°	4014.4	4010.4	3933.1	3782.4	3572.3	3321.5	3179.8	3189.7	3252.1	3325.5	3095.5
40°	4413.8	4419.7	4318.6	4225.5	4027.2	3770.5	3498.9	3436.5	3495.0	3702.1	3558.4
42.5°	4885.6	4871.7	4828.1	4701.3	4541.7	4388.0	4062.0	4039.1	4090.7	4312.7	4157.1
45°	5433.8	5453.6	5378.3	5307.9	5200.8	5073.0	4800.4	4760.7	4817.3	5162.2	4941.1
47.5°	5982.9	5964.0	6012.6	5999.7	6057.2	5962.1	5721.2	5639.9	5775.7	6102.8	5777.7
50°	6401.2	6422.0	6523.1	6670.8	6917.6	6971.1	6740.1	6712.4	6772.9	6983.0	6526.1
52.5°	6672.7	6742.1	6900.7	7280.3	7725.4	8071.3	7895.9	7881.1	7856.2	7912.8	7241.7
55°	6850.2	6920.5	7127.7	7686.7	8453.0	9015.0	9023.8	8960.4	8796.9	8756.3	7910.7
57.5°	6741.2	6755.0	7050.4	7797.7	8856.4	9688.0	9979.4	9916.0	9613.7	9460.0	8501.5
60°	6059.2	6088.0	6499.3	7377.5	8680.9	9908.0	10612.8	10584.0	10253.0	10079.5	8961.4
62.5°	4850.9	4934.2	5357.4	6336.7	7865.2	9537.3	10869.5	10950.8	10693.0	10454.1	9106.1
63°	4628.9	4602.2	5049.2	6033.4	7649.0	9354.0	10873.4	10976.6	10712.8	10489.9	9066.5
65°	3426.6	3506.9	3797.3	4757.7	6365.5	8500.6	10628.6	10811.0	10639.6	10332.2	8627.4
67.5°	1923.9	1919.9	2241.1	3113.4	4455.4	6667.8	9610.7	9996.2	9960.5	9271.7	7151.5
70°	941.6	956.5	1088.4	1613.7	2584.1	4600.1	7986.1	8402.4	8415.3	7282.4	4945.1
72.5°	426.2	433.2	527.4	786.1	1328.2	2449.2	5503.2	5900.6	5827.2	4640.8	2730.8
75°	225.0	239.8	290.4	395.5	640.3	1010.1	2993.4	3378.0	3224.4	2120.2	1005.1
77.5°	166.5	171.5	197.2	251.7	343.0	393.5	1291.6	1536.3	1439.2	767.2	333.0
80°	121.9	125.9	146.7	178.4	216.1	200.2	486.7	558.0	500.6	260.7	102.1
82.5°	74.3	75.3	107.0	132.8	135.8	112.0	160.6	172.5	180.4	146.7	55.5
85°	26.8	33.7	72.3	96.2	80.3	56.5	67.4	74.3	81.3	93.2	32.7
87.5°	3.0	4.0	34.7	46.6	22.8	20.8	24.7	27.7	29.8	34.7	15.9
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°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1482.8	1486.8	1483.9	1478.9	1477.9	1474.9	1469.0	1469.0	1469.0	1470.9	1469.0
5°	1504.6	1507.6	1500.7	1490.8	1479.9	1466.0	1451.1	1442.2	1441.2	1439.2	1434.3
7.5°	1546.3	1550.3	1534.4	1510.6	1480.9	1447.1	1415.4	1385.7	1371.8	1360.9	1360.9
10°	1606.7	1610.7	1579.0	1536.3	1476.9	1408.5	1333.1	1264.8	1211.2	1186.5	1180.5
12.5°	1679.1	1681.1	1628.6	1554.2	1456.1	1324.2	1163.7	1014.0	909.9	862.3	857.4
15°	1758.4	1744.5	1675.2	1561.1	1396.6	1150.8	873.3	689.9	581.8	550.1	562.0
17.5°	1838.6	1812.9	1710.8	1550.3	1262.8	873.3	586.8	470.8	437.1	428.2	428.2
20°	1914.0	1878.3	1736.6	1502.7	1030.8	601.7	435.1	407.4	401.4	395.5	396.5
22.5°	1989.4	1934.8	1759.4	1396.6	768.2	430.2	389.5	380.6	372.7	364.8	363.8
25°	2062.7	1987.3	1768.3	1200.3	523.4	369.7	355.9	344.0	328.1	319.2	317.2
27.5°	2139.0	2050.8	1762.4	952.5	381.6	331.1	317.2	300.4	281.5	265.7	265.7
30°	2285.7	2171.7	1741.5	684.9	321.2	291.4	273.6	246.8	226.0	210.2	209.1
32.5°	2485.9	2329.3	1670.1	481.7	285.5	256.7	230.0	200.2	178.4	166.5	166.5
35°	2664.3	2487.9	1536.3	354.9	256.7	223.0	190.3	161.5	144.7	136.8	133.8
37.5°	2935.9	2719.8	1352.0	288.5	228.9	193.3	159.6	132.8	118.9	113.0	113.0
40°	3343.3	3003.4	1126.0	252.8	202.2	164.5	132.8	112.0	101.1	94.2	94.2
42.5°	3848.8	3350.2	897.0	227.0	177.4	141.7	111.0	95.1	85.3	80.3	79.3
45°	4485.2	3716.0	690.8	203.2	157.6	120.9	94.2	80.3	70.4	67.4	68.4
47.5°	5149.2	4038.2	535.3	182.4	136.8	102.1	80.3	69.4	62.5	58.5	58.5
50°	5716.2	4260.1	406.4	158.6	120.9	86.2	70.4	62.5	56.5	54.5	53.6
52.5°	6190.0	4324.6	311.2	137.8	106.1	74.3	62.5	56.5	51.5	48.5	48.5
55°	6593.5	4268.1	243.8	116.0	89.2	64.4	55.5	50.6	44.6	41.7	40.6
57.5°	6829.3	4086.7	186.4	96.2	72.3	53.6	48.5	42.6	35.7	30.7	30.7
60°	6948.3	3823.1	142.7	79.3	55.5	42.6	39.6	31.7	24.7	20.8	19.8
62.5°	6805.6	3473.2	108.1	62.5	41.7	31.7	26.8	22.8	15.9	11.9	11.9
63°	6717.4	3372.1	104.1	59.5	38.7	29.8	24.7	20.8	13.9	10.9	9.9
65°	6123.6	2931.0	85.3	47.6	30.7	20.8	16.8	14.9	9.9	4.9	4.0
67.5°	4862.8	2242.1	67.4	35.7	21.8	14.9	9.9	8.9	3.0	0.0	0.0
70°	3287.8	1448.2	52.5	25.8	14.9	8.9	4.9	4.0	1.0	0.0	0.0
72.5°	1714.8	742.4	40.6	18.9	8.9	6.0	3.0	1.0	0.0	0.0	0.0
75°	606.6	252.8	29.8	11.9	6.0	3.0	1.0	0.0	0.0	0.0	0.0
77.5°	183.4	94.2	18.9	8.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	64.4	34.7	10.9	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	16.8	7.0	4.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	10.9	6.0	4.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	7.9	6.0	4.9	4.0	2.0	1.0	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)