

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: P647899

Luminaire Tested: **GALN-SA4A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647899  
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-SA4A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14436.1 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

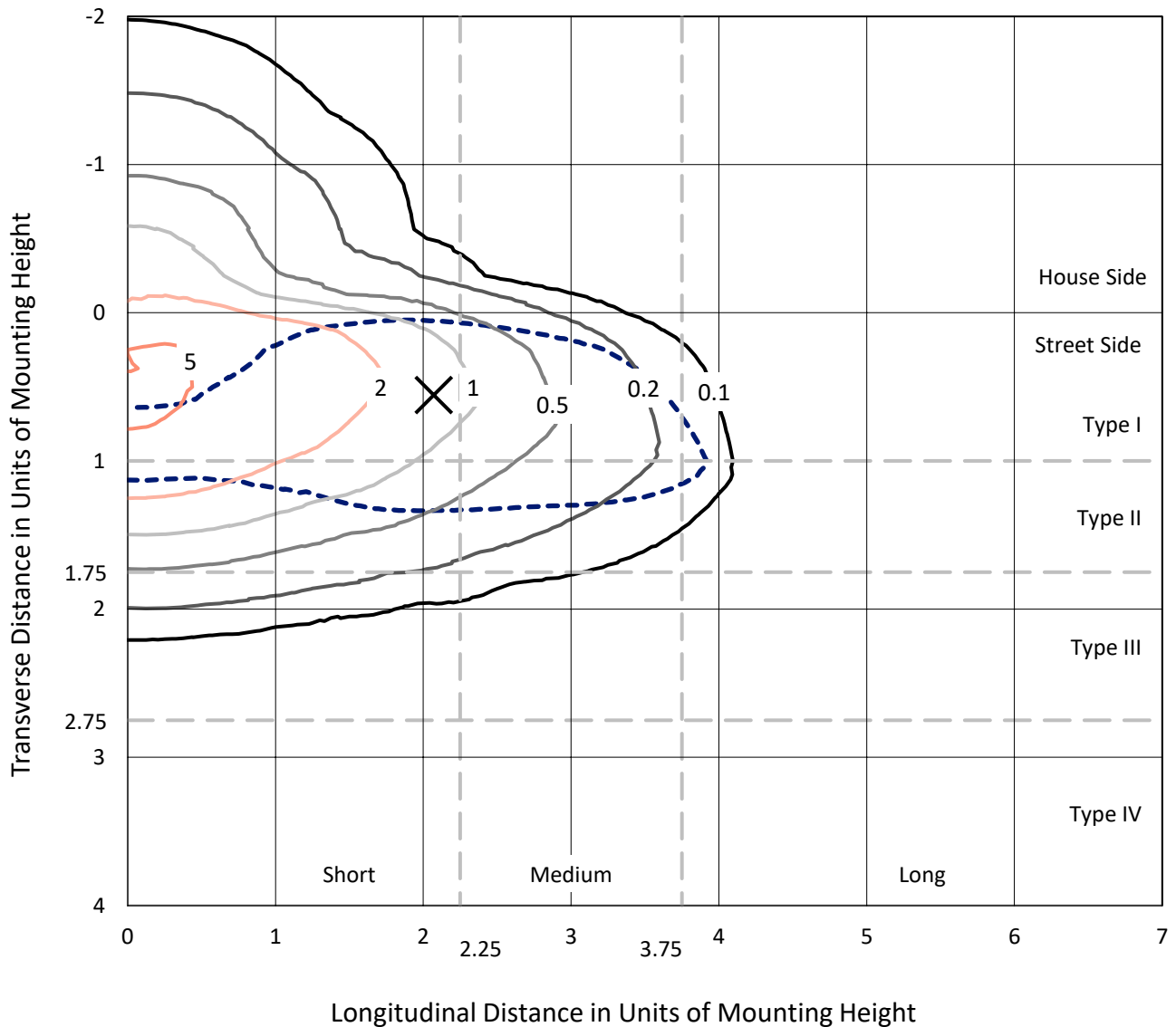
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

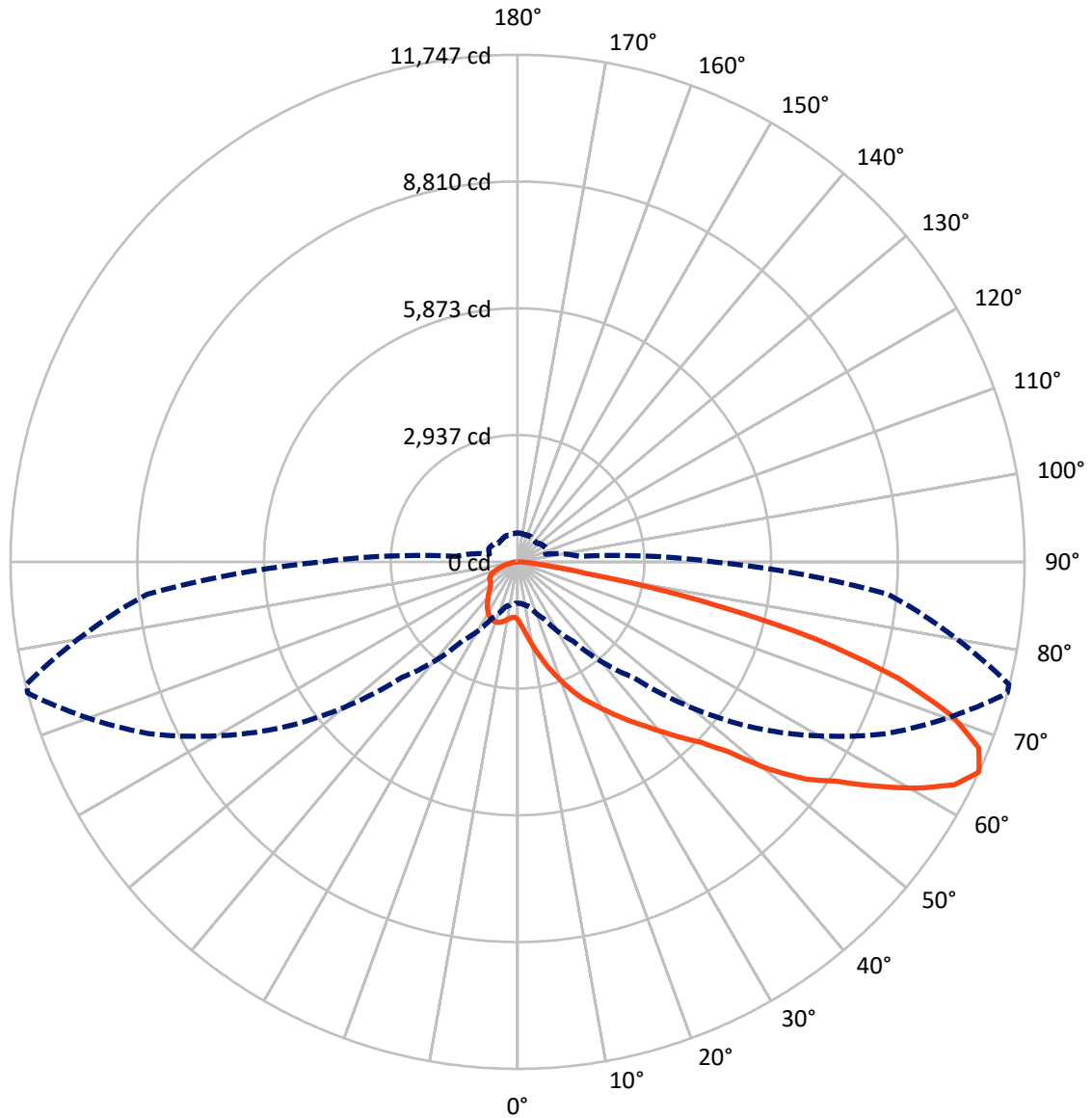
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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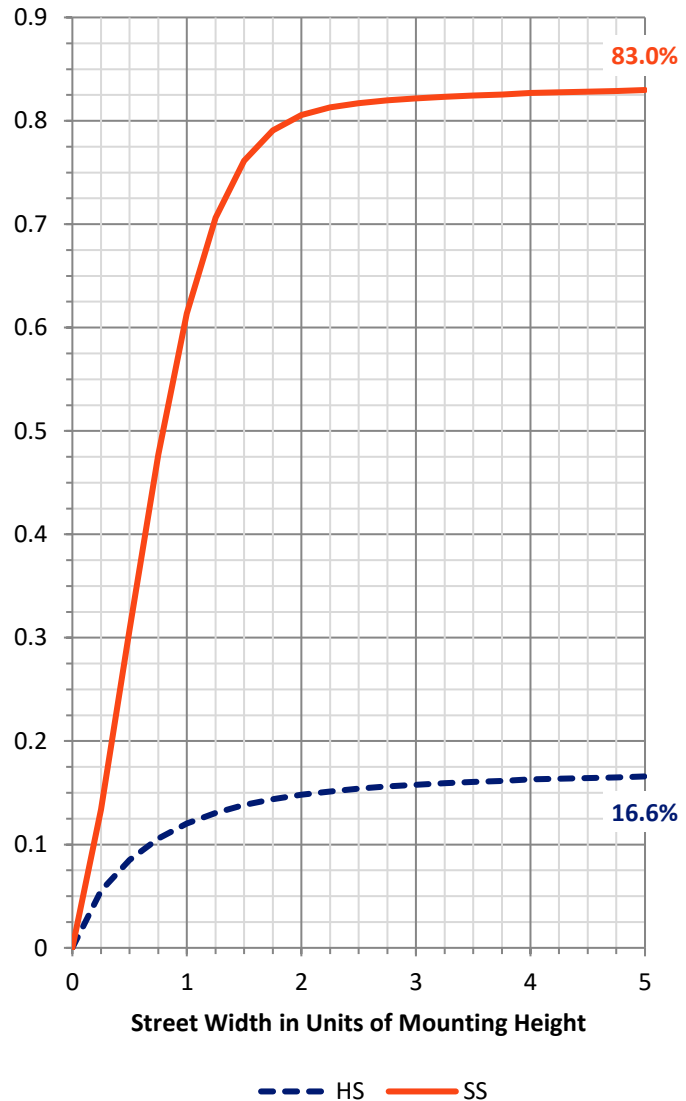
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2426.9	0.0	2426.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	12009.3	0.0	12009.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	14436.1	0.0	14436.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	1.1
10°-20°	638.3	4.4
20°-30°	1233.0	8.5
30°-40°	2002.7	13.9
40°-50°	2755.0	19.1
50°-60°	3252.7	22.5
60°-70°	2849.9	19.7
70°-80°	1360.5	9.4
80°-90°	181.0	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°	14436.1	100.0
0°-180°	14436.1	100.0

**Coefficient of Utilization**

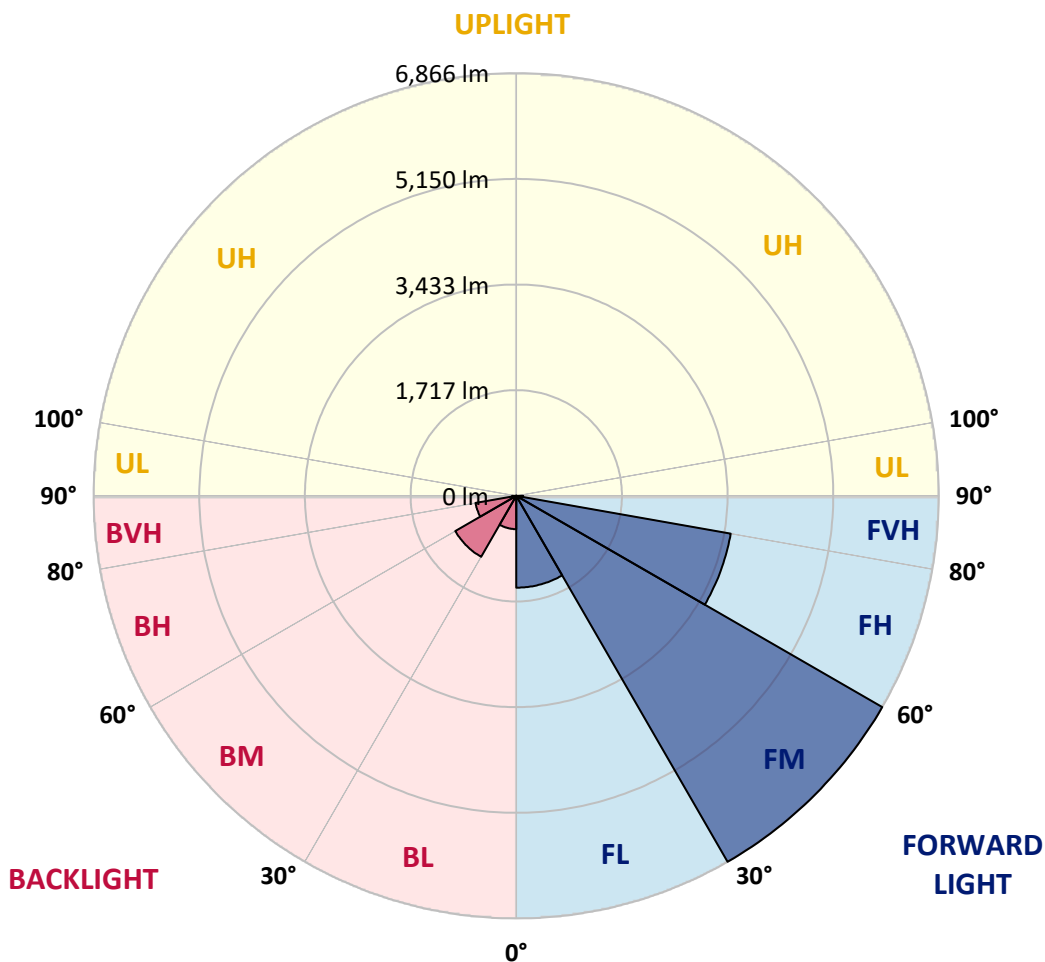


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.5	10.3			
FM (30°-60°)	6866.1	47.6			
FH (60°-80°)	3537.5	24.5			G2/5000
FVH (80°-90°)	113.1	0.8			G2/225
BL (0°-30°)	541.8	3.8	B2/1000		
BM (30°-60°)	1144.2	7.9	B2/2500		
BH (60°-80°)	672.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1782.1	1770.4	1757.8	1723.4	1686.6	1645.1	1585.6	1528.4	1452.5	1450.1	1393.7
5°	2276.3	2268.4	2212.8	2180.7	2095.3	1981.8	1885.5	1735.9	1597.3	1580.9	1471.3
7.5°	2730.4	2699.9	2678.7	2620.8	2536.2	2390.6	2204.1	2002.1	1770.4	1748.4	1566.8
10°	3072.6	3069.4	3058.5	3008.4	2944.9	2800.1	2593.4	2303.7	1989.6	1946.5	1682.7
12.5°	3328.6	3331.0	3329.4	3328.6	3283.2	3160.3	2936.3	2631.0	2211.2	2180.7	1816.6
15°	3497.0	3520.4	3529.8	3569.0	3572.9	3490.7	3298.1	2947.3	2461.0	2415.6	1960.6
17.5°	3608.1	3619.9	3663.7	3730.3	3784.3	3769.4	3598.0	3240.1	2716.3	2640.4	2110.2
20°	3714.6	3735.0	3768.7	3859.5	3955.0	3998.9	3878.3	3540.0	2969.2	2920.7	2275.5
22.5°	3936.2	3965.2	3976.9	4023.1	4104.6	4182.1	4127.3	3827.4	3246.4	3180.6	2450.9
25°	4311.3	4341.8	4308.9	4298.0	4324.6	4363.0	4351.2	4098.3	3507.9	3414.0	2616.9
27.5°	4799.9	4803.8	4739.6	4678.5	4612.7	4593.2	4557.1	4338.7	3735.0	3656.7	2783.6
30°	5324.5	5305.7	5199.2	5088.8	4977.6	4868.0	4764.6	4570.4	3987.9	3897.9	2947.3
32.5°	5811.5	5801.3	5683.1	5511.6	5323.7	5220.3	5011.3	4804.6	4258.8	4171.9	3115.6
35°	6176.4	6191.3	6061.3	5874.1	5669.0	5577.4	5313.5	5050.4	4539.1	4444.4	3298.9
37.5°	6435.6	6427.7	6312.6	6150.5	5970.5	5890.6	5666.6	5319.0	4840.6	4749.8	3499.3
40°	6527.9	6523.3	6437.9	6319.7	6205.4	6177.2	6036.2	5608.7	5185.9	5079.4	3740.5
42.5°	6469.2	6479.4	6423.0	6390.9	6369.8	6390.1	6403.5	5988.5	5562.5	5464.6	4002.0
45°	6289.1	6283.7	6275.8	6328.3	6447.3	6581.2	6766.8	6347.1	5972.0	5893.7	4352.8
47.5°	5967.3	6006.5	6026.0	6170.9	6430.9	6748.1	7185.0	6827.9	6566.3	6498.2	4887.6
50°	5517.1	5548.4	5664.3	5921.9	6309.5	6810.7	7593.7	7614.0	7557.7	7430.0	5468.6
52.5°	4814.0	4862.5	5101.3	5573.5	6060.5	6784.9	7841.1	8288.2	8362.6	8267.1	6040.9
55°	4027.0	4095.2	4347.3	4966.6	5717.5	6643.8	8011.8	8678.9	8975.7	8887.2	6592.2
57.5°	3256.6	3328.6	3587.8	4187.6	5119.3	6332.2	8123.8	9114.3	9810.4	9695.3	7278.1
60°	2440.7	2515.9	2738.2	3356.0	4267.4	5723.0	8047.8	9491.7	10644.3	10594.9	7964.8
62.5°	1574.6	1657.6	1851.0	2362.4	3280.1	4890.7	7641.5	9700.0	11366.3	11306.8	8466.0
65°	959.2	968.6	1075.1	1466.6	2244.9	3786.7	6712.0	9423.6	11746.8	11728.8	8618.6
67.5°	620.1	635.0	683.6	878.5	1346.0	2630.2	5366.8	8511.4	11524.4	11518.2	8303.1
70°	523.8	528.5	550.4	592.7	782.2	1595.0	3768.7	7057.3	10679.5	10679.5	7544.4
72.5°	468.2	474.5	482.3	495.6	558.3	903.6	2248.9	5493.6	9220.8	9281.8	6421.5
75°	425.2	423.6	428.3	430.6	476.1	590.4	1162.8	4063.1	7133.3	7011.1	4650.3
77.5°	364.1	366.4	364.1	374.3	420.5	449.4	590.4	2726.5	4323.0	4164.9	2334.2
80°	299.1	303.0	306.9	313.2	359.4	341.4	354.7	1242.6	1598.9	1565.2	721.1
82.5°	224.7	230.2	236.5	251.3	282.7	225.5	223.9	530.9	577.1	528.5	265.4
85°	90.8	107.3	162.1	177.0	177.7	123.7	137.8	221.6	235.7	230.2	104.1
87.5°	21.1	25.1	52.5	79.1	72.8	46.2	50.9	72.0	82.2	76.0	35.2
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°	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1367.9	1340.5	1293.5	1257.5	1231.7	1209.0	1194.9	1186.2	1183.1	1182.3	1183.1
5°	1414.1	1365.6	1291.2	1244.2	1218.3	1203.5	1194.9	1194.1	1194.9	1195.6	1193.3
7.5°	1477.5	1407.8	1310.7	1266.9	1247.3	1236.4	1232.4	1230.9	1231.7	1230.9	1230.9
10°	1562.1	1466.6	1349.1	1303.7	1287.3	1274.7	1268.5	1264.5	1261.4	1258.3	1256.7
12.5°	1655.3	1531.5	1390.6	1346.8	1323.3	1303.7	1289.6	1279.4	1272.4	1265.3	1263.8
15°	1759.4	1600.5	1436.8	1375.7	1342.1	1313.1	1288.8	1272.4	1259.8	1249.7	1248.9
17.5°	1858.8	1665.4	1468.1	1389.0	1339.7	1299.0	1266.9	1244.2	1228.5	1215.2	1213.6
20°	1965.3	1727.3	1482.2	1380.4	1316.2	1266.9	1224.6	1197.2	1179.2	1164.3	1162.0
22.5°	2072.6	1779.8	1480.7	1353.0	1275.5	1217.6	1172.9	1144.0	1122.8	1107.9	1102.5
25°	2175.2	1822.0	1461.1	1309.2	1219.1	1158.8	1113.4	1086.8	1068.0	1050.0	1050.0
27.5°	2267.6	1847.1	1424.3	1255.9	1161.2	1097.8	1061.7	1037.5	1020.2	1008.5	1001.5
30°	2358.5	1858.8	1374.2	1188.6	1100.1	1046.1	1017.1	1003.0	987.4	974.1	972.5
32.5°	2439.9	1856.5	1311.5	1122.8	1042.2	1003.8	992.1	981.1	964.7	945.9	941.2
35°	2519.0	1840.8	1237.1	1050.8	993.6	978.8	981.9	966.2	936.5	913.0	909.1
37.5°	2605.1	1812.6	1155.7	992.1	952.9	967.0	974.8	940.4	891.8	855.0	846.4
40°	2704.6	1780.5	1071.1	933.3	920.8	956.0	956.0	892.6	826.1	803.4	797.1
42.5°	2821.2	1753.9	1000.7	884.0	894.2	929.4	925.5	829.2	801.8	790.0	786.9
45°	3006.0	1744.5	927.9	840.9	872.3	898.1	866.0	807.3	791.6	782.2	779.1
47.5°	3298.1	1755.5	863.6	808.8	847.2	866.8	799.4	792.4	781.4	768.1	766.6
50°	3569.0	1745.3	818.2	790.8	825.3	829.2	772.0	774.4	768.1	753.2	750.1
52.5°	3790.6	1713.2	789.3	781.4	806.5	763.4	746.2	754.8	752.5	733.7	730.5
55°	4034.1	1693.6	775.2	781.4	794.0	706.3	721.9	734.5	731.3	718.0	717.2
57.5°	4329.3	1697.5	765.0	783.8	781.4	677.3	697.7	712.5	711.7	707.8	707.8
60°	4631.5	1699.1	749.3	783.0	766.6	654.6	672.6	693.7	695.3	697.7	697.7
62.5°	4731.7	1631.0	718.8	768.9	733.7	632.7	649.1	678.1	676.5	682.8	683.6
65°	4544.6	1442.3	673.4	736.8	691.4	617.0	631.1	657.7	649.1	665.6	668.7
67.5°	4136.7	1193.3	602.9	678.9	644.4	600.6	619.4	629.5	613.9	646.0	646.8
70°	3575.3	931.8	513.6	596.6	591.2	583.3	610.0	594.3	572.4	611.5	603.7
72.5°	2989.6	711.7	410.3	487.8	519.9	557.5	593.5	548.9	518.3	530.1	516.0
75°	2245.7	526.2	329.6	382.1	433.0	520.7	578.6	494.1	447.1	436.1	433.0
77.5°	1144.7	343.7	246.6	285.8	324.9	470.6	558.3	429.9	370.4	353.1	345.3
80°	408.7	213.8	173.8	197.3	219.2	404.8	487.8	355.5	287.4	284.2	287.4
82.5°	189.5	137.8	116.7	129.2	130.0	270.1	371.9	265.4	218.5	332.0	280.3
85°	81.4	68.9	65.8	64.2	59.5	120.6	209.1	142.5	222.4	99.4	91.6
87.5°	24.3	27.4	24.3	18.0	13.3	13.3	21.1	7.8	5.5	3.9	3.9
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)