

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: P529362

Luminaire Tested: **GALN-SA4C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21595 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

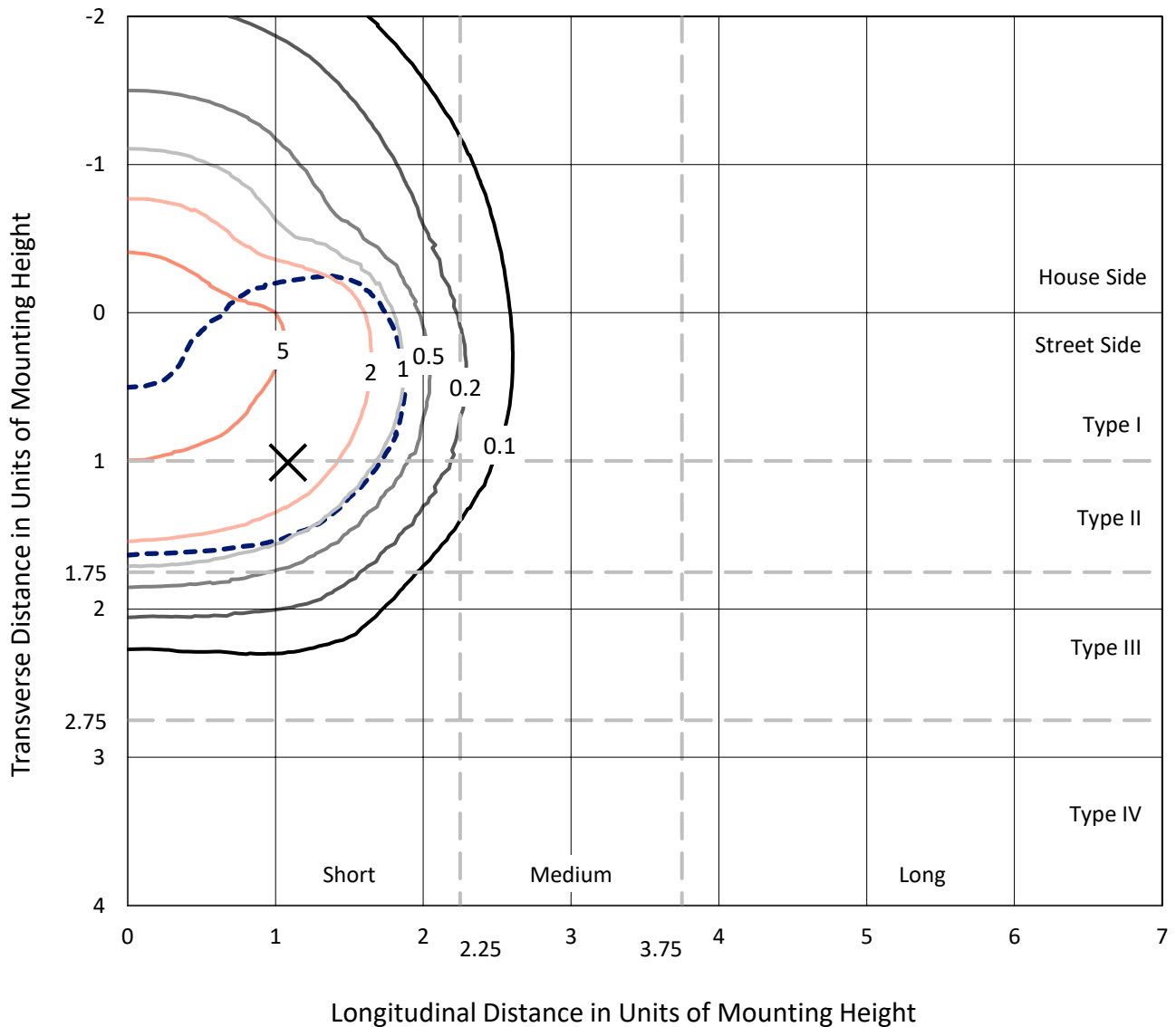
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

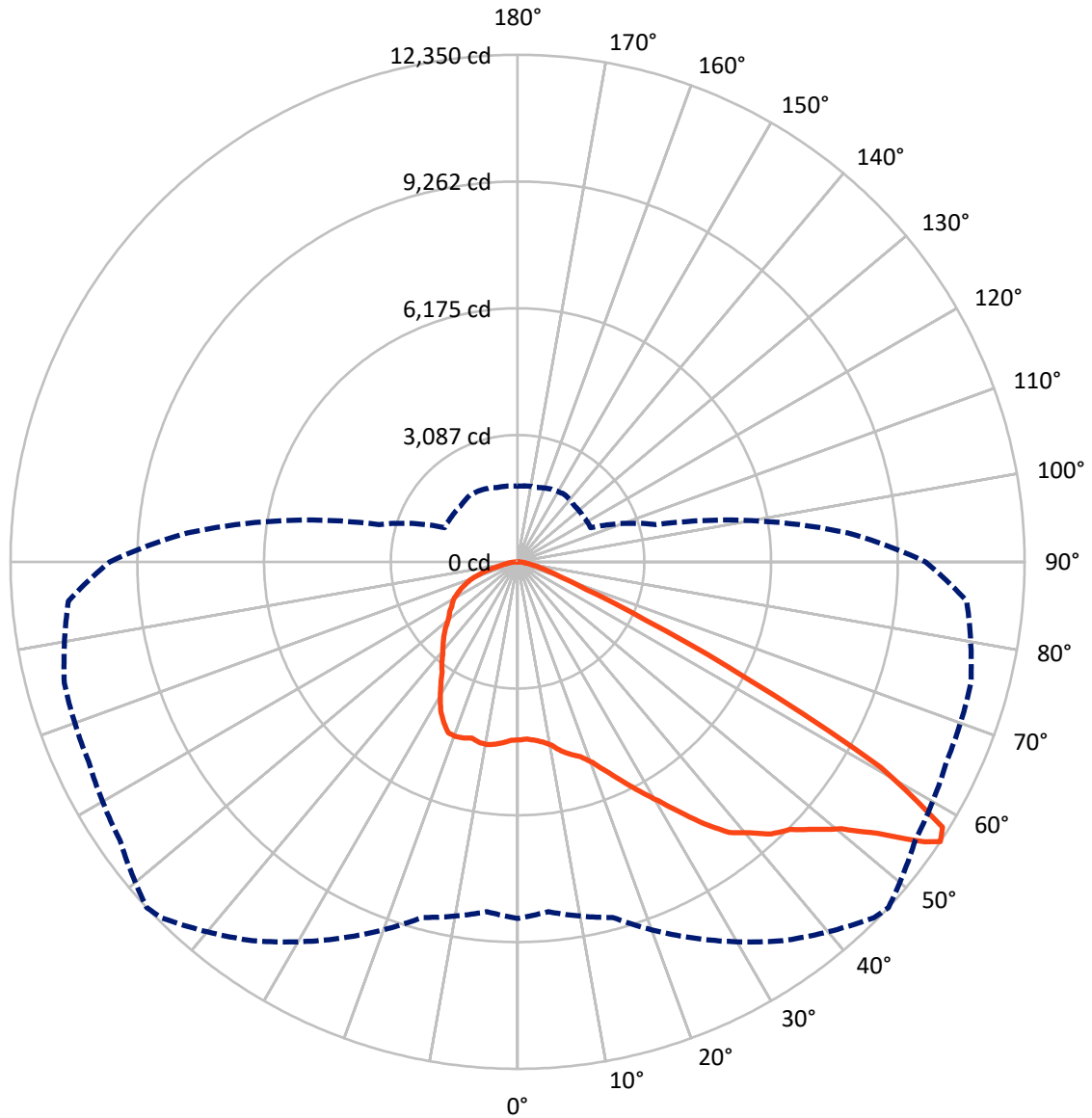
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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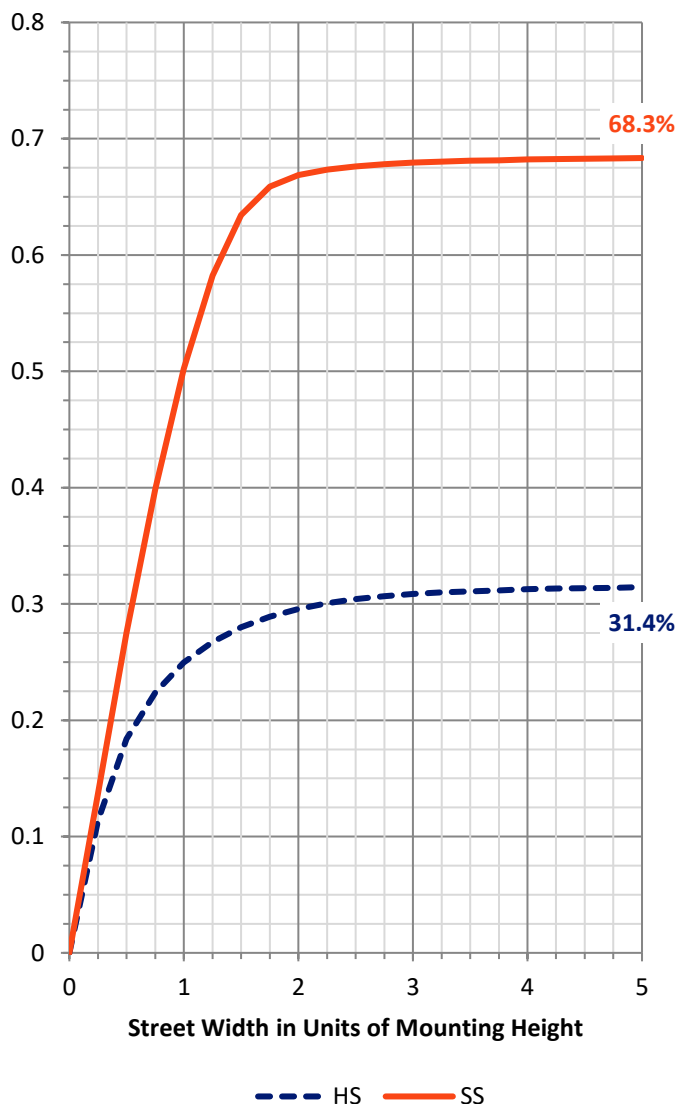
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6843.2	0.0	6843.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	14751.8	0.0	14751.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	21595.0	0.0	21595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.7	2.0
10°-20°	1333.3	6.2
20°-30°	2356.9	10.9
30°-40°	3540.0	16.4
40°-50°	4858.3	22.5
50°-60°	5788.0	26.8
60°-70°	2476.9	11.5
70°-80°	701.0	3.2
80°-90°	118.0	0.5
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°	21595.0	100.0
0°-180°	21595.0	100.0

**Coefficient of Utilization**

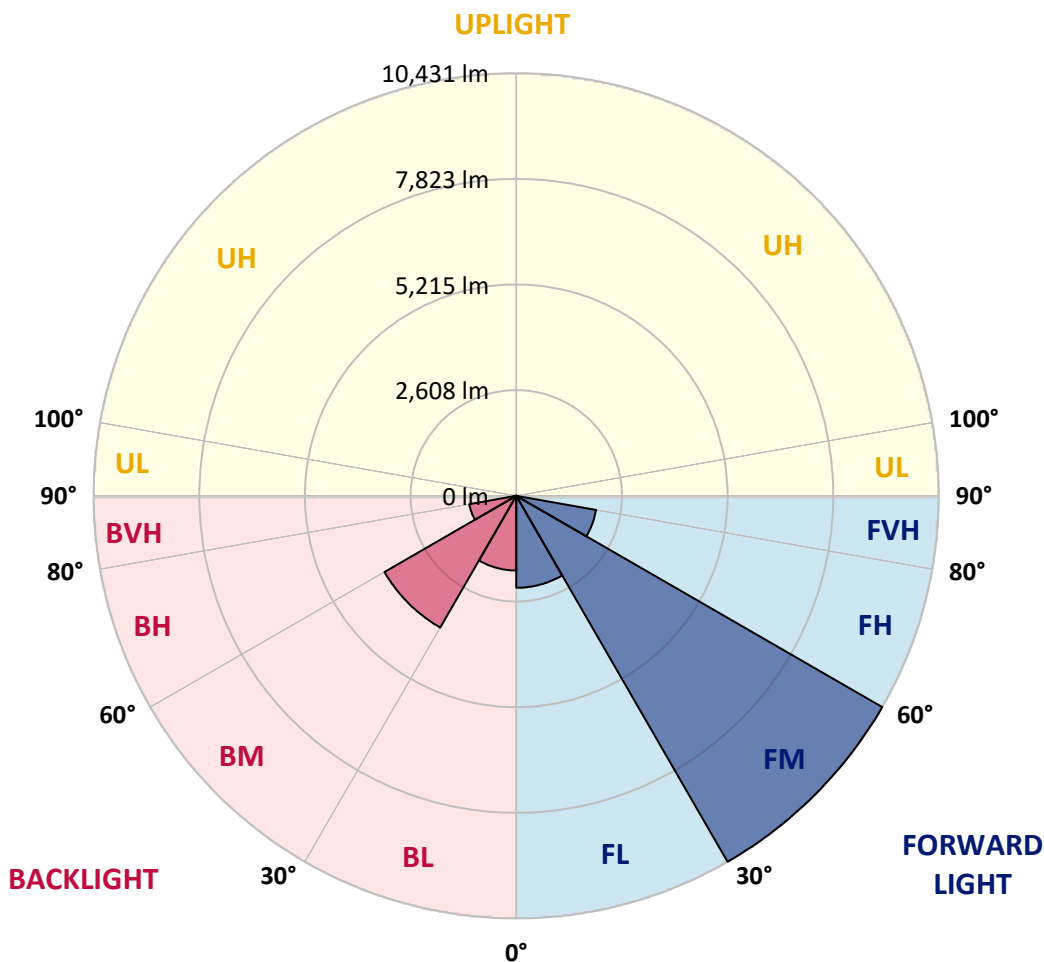


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.4	10.5			
FM (30°-60°)	10430.9	48.3			
FH (60°-80°)	2000.5	9.3			G2/5000
FVH (80°-90°)	50.1	0.2			G1/100
BL (0°-30°)	1842.5	8.5	B3/2500		
BM (30°-60°)	3755.4	17.4	B3/5000		
BH (60°-80°)	1177.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	67.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
2.5°	4321.3	4313.0	4307.5	4351.6	4335.0	4337.8	4321.3	4337.8	4348.8	4324.0	4359.8
5°	4313.0	4337.8	4315.7	4329.5	4365.3	4354.3	4365.3	4398.4	4390.1	4381.8	4370.8
7.5°	4390.1	4392.9	4409.4	4414.9	4425.9	4414.9	4431.4	4461.7	4453.5	4406.6	4412.1
10°	4500.3	4505.8	4508.5	4538.8	4558.1	4560.9	4541.6	4514.0	4511.3	4574.6	4530.6
12.5°	4627.0	4613.2	4646.2	4657.3	4679.3	4704.1	4728.9	4671.0	4706.8	4709.6	4657.3
15°	4811.5	4825.3	4786.7	4786.7	4795.0	4797.7	4866.6	4839.0	4833.5	4803.2	4825.3
17.5°	5086.9	4993.3	4990.5	4952.0	4946.4	4968.5	4993.3	5015.3	5089.7	5029.1	4910.6
20°	5288.0	5310.0	5230.1	5183.3	5191.6	5241.1	5216.4	5315.5	5367.8	5268.7	5153.0
22.5°	5643.2	5568.9	5588.2	5483.5	5491.8	5544.1	5541.3	5643.2	5673.5	5516.6	5348.6
25°	5882.9	5863.6	5880.1	5797.5	5808.5	5849.8	5915.9	6083.9	6034.3	5860.8	5472.5
27.5°	6232.6	6194.1	6180.3	6150.0	6139.0	6249.2	6326.3	6505.3	6469.5	6216.1	5692.8
30°	6590.7	6565.9	6579.7	6455.7	6499.8	6733.9	6755.9	7001.0	6984.5	6538.3	5937.9
32.5°	6838.5	6852.3	6877.1	6808.2	7003.8	7191.1	7265.4	7543.6	7557.4	7091.9	6411.7
35°	7237.9	7191.1	7204.8	7284.7	7375.6	7717.1	7838.3	8022.8	8138.5	7673.0	6866.1
37.5°	7488.5	7538.1	7480.3	7607.0	7843.8	8254.2	8364.3	8554.4	8675.6	8245.9	7485.8
40°	7879.6	7799.7	7841.1	7931.9	8174.3	8708.6	8678.3	8873.9	8912.4	8733.4	8064.1
42.5°	8301.0	8262.4	8204.6	8411.2	8615.0	9003.3	9063.9	8973.0	9168.6	9209.9	8890.4
45°	8805.0	8851.8	8860.1	8865.6	9044.6	9383.4	9300.7	9220.9	9446.7	9746.9	9402.7
47.5°	9273.2	9124.5	9231.9	9380.6	9634.0	9636.8	9733.2	9543.1	9782.7	10049.9	9865.3
50°	9430.2	9358.6	9501.8	9782.7	10173.8	10215.1	10226.1	9956.2	10080.2	10292.2	10025.1
52.5°	9369.6	9344.8	9711.1	10146.3	10719.1	10928.4	10983.5	10650.3	10719.1	10622.7	10377.6
55°	9080.4	9154.8	9523.8	10410.7	11289.2	11936.5	12041.1	11619.7	11181.8	11256.2	10986.3
56°	8683.8	8554.4	8967.5	10110.5	11264.5	12264.2	12349.6	11823.5	11526.1	11429.7	10980.8
57.5°	7367.3	7199.3	7741.9	9096.9	10639.3	12140.3	12203.6	11908.9	11468.3	11272.7	10179.3
60°	4313.0	4395.6	5084.2	6273.9	8207.4	9953.5	10165.6	10380.4	10085.7	9209.9	7576.7
62.5°	2082.1	2029.8	2522.8	3596.9	5001.5	6353.8	6290.5	6893.6	7224.1	6543.9	4784.0
65°	1090.6	1085.1	1377.1	1963.7	2748.6	3338.0	3395.9	3720.9	4175.3	3371.1	2429.2
67.5°	801.5	823.5	969.5	1379.8	1768.2	1804.0	1795.7	1958.2	2002.3	1693.8	1492.7
70°	627.9	639.0	746.4	1049.3	1316.5	1178.8	1154.0	1173.3	1302.7	1357.8	1291.7
72.5°	454.4	465.5	556.3	707.8	823.5	804.2	820.7	928.1	1087.9	1145.7	1076.9
75°	303.0	311.2	360.8	432.4	487.5	526.0	556.3	680.3	829.0	862.0	829.0
77.5°	209.3	217.6	250.6	305.7	311.2	336.0	347.0	404.9	495.7	537.1	515.0
80°	118.4	118.4	135.0	157.0	192.8	225.8	231.3	278.2	319.5	347.0	352.5
82.5°	55.1	57.8	71.6	96.4	126.7	157.0	162.5	192.8	223.1	250.6	258.9
85°	27.5	30.3	41.3	57.8	77.1	93.6	90.9	93.6	99.1	93.6	96.4
87.5°	8.3	8.3	11.0	13.8	11.0	13.8	13.8	16.5	19.3	22.0	24.8
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°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
2.5°	4362.6	4370.8	4315.7	4368.1	4348.8	4346.0	4384.6	4379.1	4392.9	4387.4	4354.3
5°	4365.3	4346.0	4403.9	4351.6	4376.3	4428.7	4392.9	4475.5	4434.2	4461.7	4401.1
7.5°	4450.7	4456.2	4445.2	4467.2	4456.2	4481.0	4461.7	4481.0	4447.9	4450.7	4505.8
10°	4525.1	4508.5	4527.8	4500.3	4519.6	4511.3	4467.2	4453.5	4464.5	4450.7	4486.5
12.5°	4662.8	4632.5	4618.7	4585.7	4563.6	4481.0	4412.1	4373.6	4425.9	4434.2	4417.6
15°	4803.2	4806.0	4742.6	4668.3	4530.6	4406.6	4423.2	4436.9	4436.9	4459.0	4417.6
17.5°	4891.4	4891.4	4833.5	4684.8	4544.3	4472.7	4456.2	4412.1	4373.6	4368.1	4365.3
20°	5045.6	4998.8	4866.6	4682.0	4538.8	4505.8	4381.8	4277.2	4197.3	4169.8	4167.0
22.5°	5221.9	5103.4	4918.9	4687.6	4530.6	4483.7	4252.4	4095.4	3952.2	3891.6	3899.9
25°	5384.4	5194.3	4949.2	4662.8	4500.3	4274.4	4015.5	3798.0	3649.2	3599.7	3574.9
27.5°	5497.3	5290.7	4949.2	4684.8	4387.4	4040.3	3775.9	3497.8	3368.3	3335.3	3340.8
30°	5648.8	5411.9	5034.6	4638.0	4161.5	3737.4	3420.6	3238.9	3161.8	3134.2	3153.5
32.5°	6004.0	5728.6	5153.0	4525.1	3894.4	3434.4	3178.3	3076.4	2963.5	2908.4	2889.1
35°	6389.6	6028.8	5268.7	4335.0	3594.2	3159.0	2999.3	2905.6	2770.7	2710.1	2721.1
37.5°	6934.9	6414.4	5276.9	4021.1	3269.2	3004.8	2858.8	2712.8	2602.7	2509.0	2481.5
40°	7670.3	6940.4	5257.7	3690.6	3007.5	2823.0	2715.6	2533.8	2409.9	2343.8	2357.5
42.5°	8317.5	7557.4	5177.8	3316.0	2770.7	2699.1	2577.9	2398.9	2277.7	2208.8	2203.3
45°	8862.8	8011.8	5026.3	2996.5	2572.4	2561.4	2420.9	2283.2	2186.8	2123.4	2151.0
47.5°	9366.8	8378.1	4797.7	2677.0	2390.6	2412.6	2277.7	2192.3	2131.7	2073.9	2071.1
50°	9548.6	8372.6	4596.7	2412.6	2244.6	2233.6	2228.1	2137.2	2073.9	2024.3	2046.3
52.5°	9851.6	8466.2	4379.1	2230.9	2112.4	2115.2	2134.5	2068.4	1996.8	1966.5	1994.0
55°	10286.7	8480.0	3899.9	2018.8	2002.3	2021.5	2021.5	1977.5	1916.9	1892.1	1878.3
56°	9931.4	8069.6	3497.8	1963.7	1947.2	1947.2	1999.5	1949.9	1875.6	1856.3	1839.8
57.5°	9160.3	7069.9	2927.7	1897.6	1872.8	1911.4	1938.9	1886.6	1817.7	1790.2	1806.7
60°	6318.0	4784.0	2200.6	1754.4	1754.4	1817.7	1839.8	1762.7	1732.4	1729.6	1707.6
62.5°	3687.8	2787.2	1721.3	1624.9	1630.5	1682.8	1699.3	1655.2	1616.7	1663.5	1685.5
65°	1955.4	1663.5	1476.2	1487.2	1490.0	1531.3	1602.9	1600.2	1597.4	1611.2	1613.9
67.5°	1415.6	1382.6	1341.3	1330.3	1335.8	1366.1	1437.7	1492.7	1490.0	1456.9	1432.2
70°	1261.4	1214.6	1189.8	1192.5	1170.5	1206.3	1264.2	1300.0	1236.6	1198.1	1181.5
72.5°	1049.3	1035.6	1019.0	1021.8	977.7	969.5	903.4	903.4	886.8	875.8	895.1
75°	801.5	795.9	804.2	790.4	743.6	694.0	655.5	619.7	564.6	542.6	531.6
77.5°	506.8	523.3	542.6	512.3	493.0	457.2	418.6	382.8	338.8	314.0	314.0
80°	344.3	358.0	371.8	366.3	344.3	311.2	280.9	242.4	212.1	192.8	190.0
82.5°	261.6	272.7	291.9	269.9	247.9	220.3	195.5	168.0	140.5	118.4	118.4
85°	93.6	107.4	118.4	129.4	137.7	140.5	121.2	99.1	79.9	63.3	60.6
87.5°	24.8	27.5	30.3	27.5	27.5	27.5	30.3	27.5	24.8	19.3	19.3
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)