

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: P651531

Luminaire Tested: **GALN-SA7D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27060.9 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

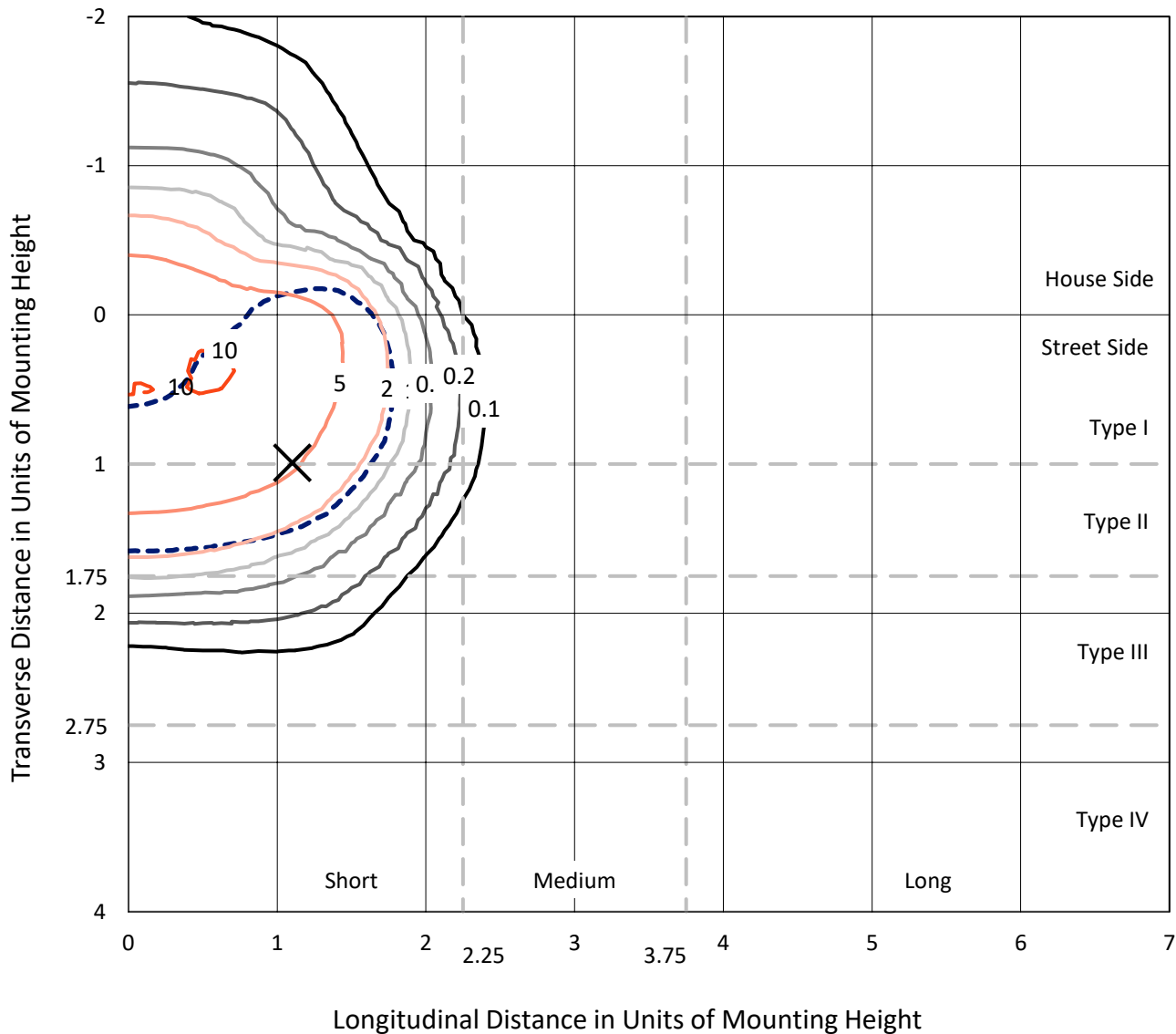
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

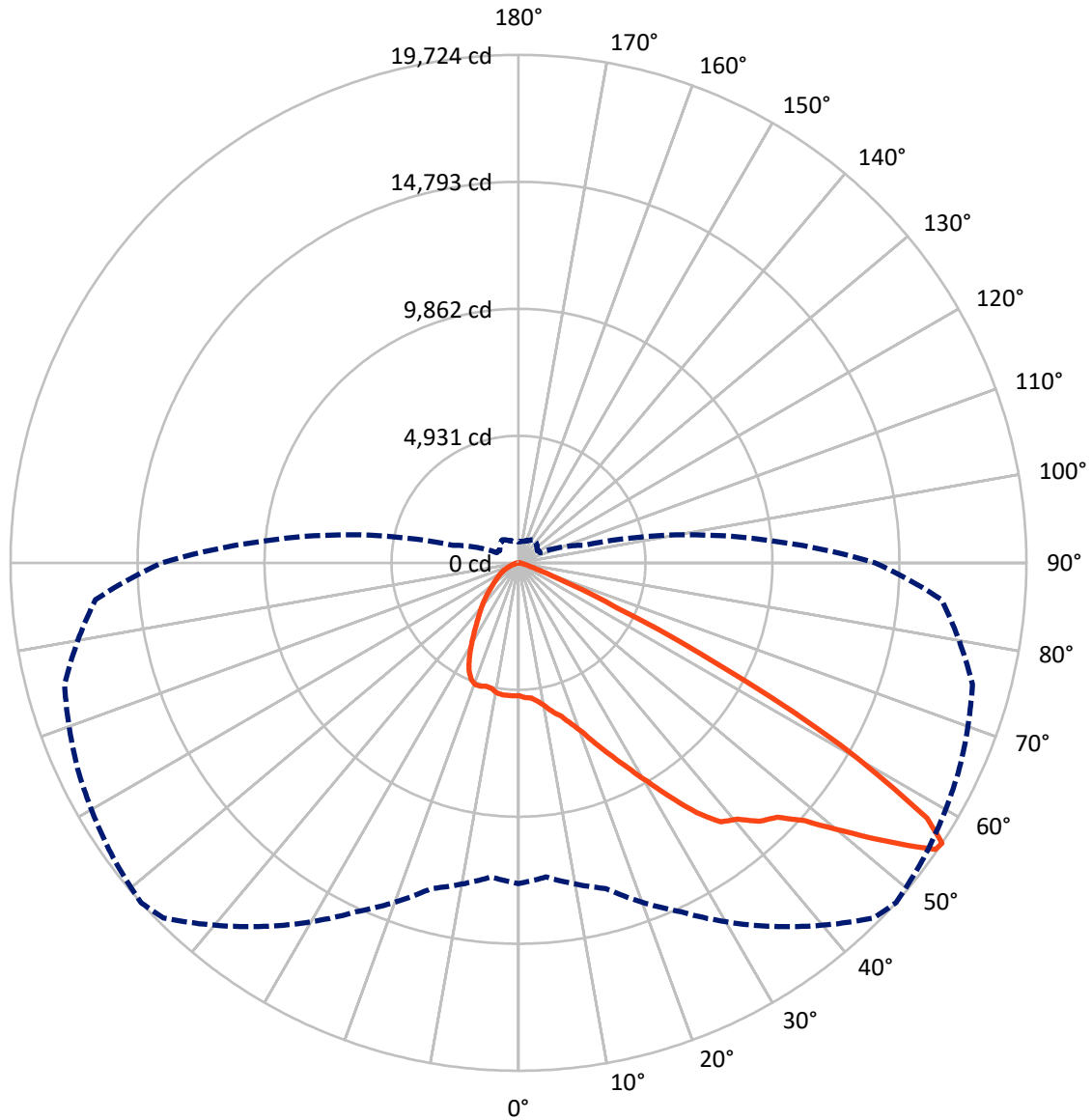
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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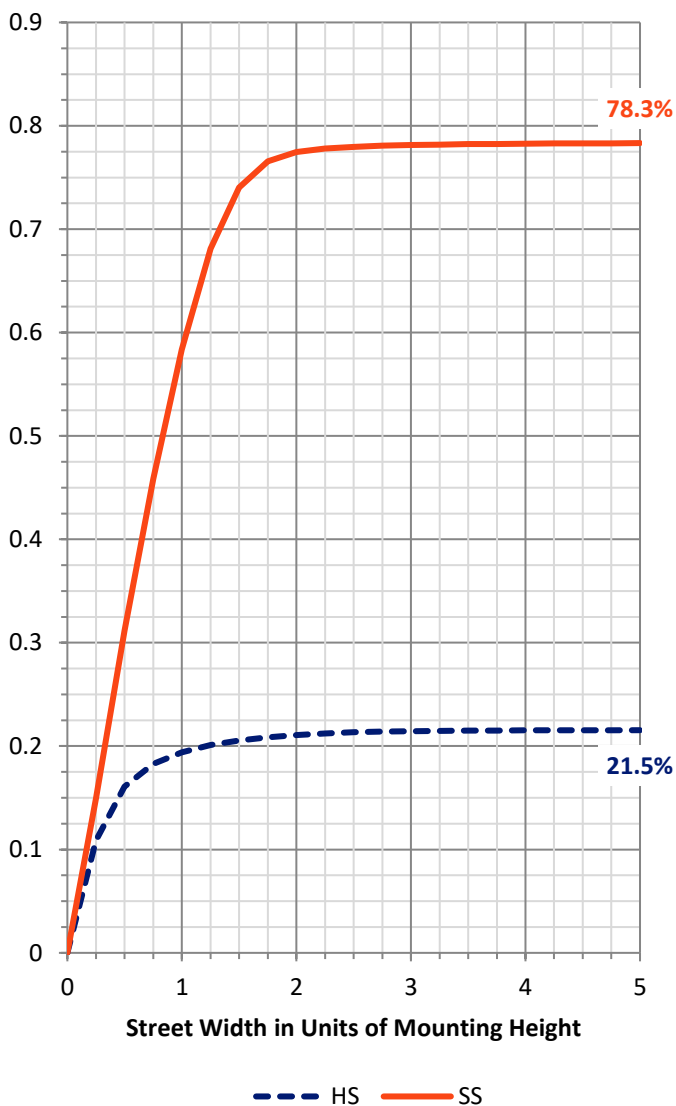
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5885.2	0.0	5885.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21175.6	0.0	21175.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	27060.9	0.0	27060.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.5	1.9
10°-20°	1609.0	5.9
20°-30°	2918.5	10.8
30°-40°	4584.3	16.9
40°-50°	6687.7	24.7
50°-60°	8057.4	29.8
60°-70°	2359.1	8.7
70°-80°	299.3	1.1
80°-90°	42.0	0.2
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°	27060.9	100.0
0°-180°	27060.9	100.0

Coefficient of Utilization

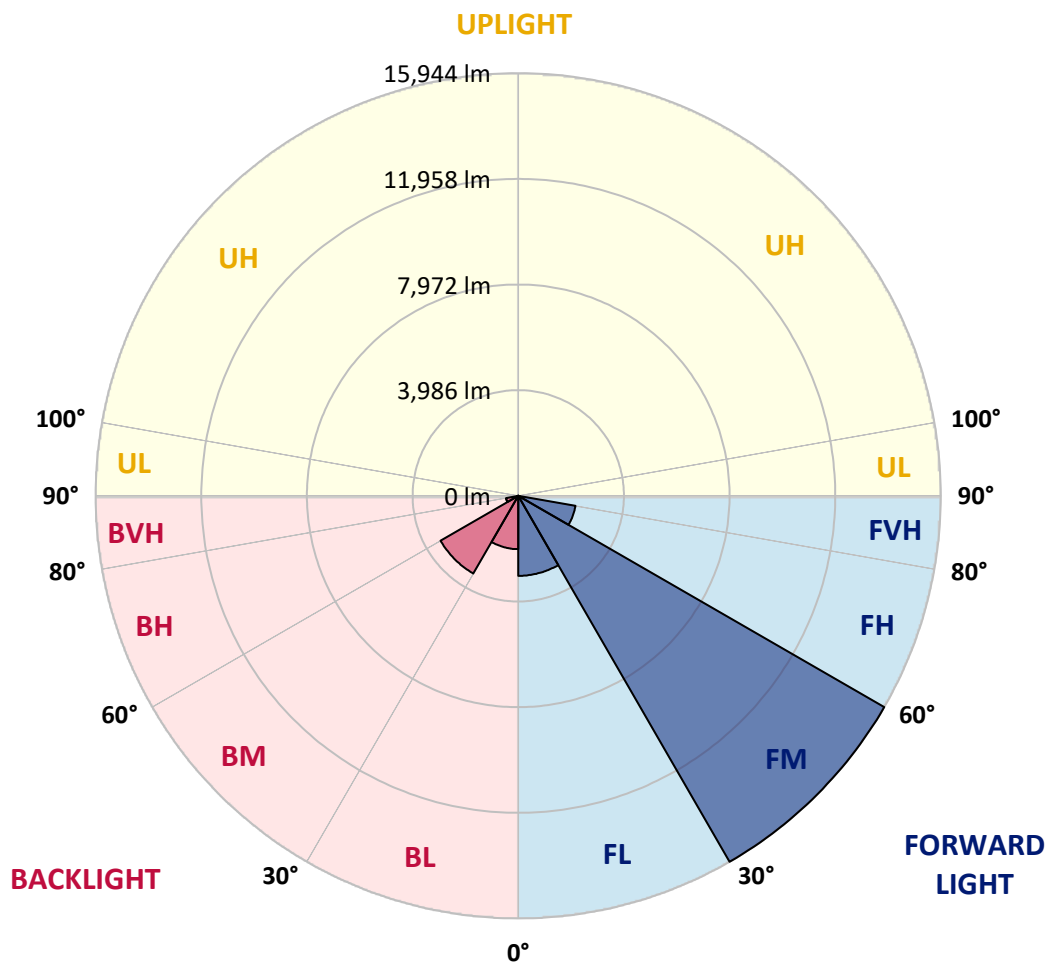


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.4	11.2			
FM (30°-60°)	15944.3	58.9			
FH (60°-80°)	2190.8	8.1			G2/5000
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	2011.5	7.4	B3/2500		
BM (30°-60°)	3385.2	12.5	B3/5000		
BH (60°-80°)	467.6	1.7	B1/500		G1/500
BVH (80°-90°)	20.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6
2.5°	5262.2	5237.6	5237.6	5198.2	5242.5	5222.9	5237.6	5188.4	5237.6	5163.7	5222.9
5°	5286.9	5291.8	5272.1	5296.7	5296.7	5326.3	5277.0	5321.3	5346.0	5291.8	5267.2
7.5°	5415.0	5424.9	5419.9	5400.2	5439.7	5434.7	5429.7	5395.3	5405.1	5385.4	5355.9
10°	5666.3	5661.4	5686.0	5636.7	5607.1	5641.7	5651.5	5597.3	5557.9	5543.1	5449.5
12.5°	6030.9	5971.8	5937.3	5888.0	5902.8	5853.5	5942.2	5848.6	5828.9	5740.2	5646.6
15°	6326.5	6316.7	6321.6	6242.7	6154.1	6173.8	6173.8	6124.5	6095.0	5986.6	5853.5
17.5°	6932.6	6725.6	6770.0	6671.4	6597.6	6592.6	6548.3	6558.1	6479.2	6252.6	6050.6
20°	7405.6	7316.9	7247.9	7080.4	6967.1	7001.6	6981.8	6932.6	6908.0	6612.3	6326.5
22.5°	7829.3	7858.9	7745.5	7701.2	7543.5	7558.3	7597.8	7553.4	7366.2	7060.7	6636.9
25°	8425.5	8391.0	8238.3	8184.1	8036.3	8090.5	8243.2	8208.7	8090.5	7538.6	6878.4
27.5°	9130.1	9011.8	9041.4	8795.1	8652.2	8804.9	8987.2	9159.7	8824.6	8100.3	7164.1
30°	9627.8	9504.6	9494.7	9484.9	9450.4	9627.8	9839.6	9997.3	9726.3	8662.0	7637.2
32.5°	9874.1	9903.7	9987.5	9957.9	10258.4	10623.0	10844.8	11071.4	10731.4	9578.5	8262.9
35°	10529.4	10342.2	10529.4	10549.2	10859.6	11633.1	11913.9	12456.0	12372.2	10874.3	9026.6
37.5°	10913.7	10898.9	10923.6	11110.9	11411.4	12367.2	12766.4	13185.2	13027.5	11652.8	9977.6
40°	11549.4	11588.8	11583.8	11726.7	12056.8	12919.1	13081.8	13421.7	13436.5	12731.9	11376.9
42.5°	12569.3	12411.6	12308.1	12456.0	12919.1	13397.0	13722.3	13653.3	14141.1	14042.5	13175.4
45°	13485.8	13579.4	13426.6	13673.0	13840.5	14096.8	14086.8	14234.7	14855.5	15323.6	14530.3
47.5°	14343.1	14402.2	14476.1	14643.7	15008.2	15047.7	14963.9	14899.8	15757.2	16240.0	15579.8
50°	14855.5	14909.8	15254.6	15555.2	16235.2	16323.8	16373.1	16210.5	16791.9	16846.1	16570.2
52.5°	14717.6	14776.7	15259.5	16249.9	17333.9	18146.8	17999.1	17723.1	17688.7	17900.5	17486.7
55°	13495.6	13441.4	14106.6	15648.8	17678.8	19629.9	19649.7	19359.0	18802.2	18659.4	17348.7
56°	12456.0	12244.1	13091.6	14954.1	17235.4	19501.9	19723.6	19413.1	18890.9	18250.4	16496.3
57.5°	10204.3	10406.3	11248.8	12791.0	15703.0	18580.5	18708.5	18634.7	18240.5	17166.4	14515.6
60°	5626.9	5981.6	6725.6	8612.8	11179.8	14259.3	14362.8	14963.9	15037.8	13145.8	9987.5
62.5°	2389.7	2350.3	3123.8	4513.3	6365.9	8607.8	8800.0	9415.9	9529.2	7578.0	5010.9
65°	970.7	1024.8	1414.1	2271.5	3365.3	3922.1	4193.1	4395.1	4769.6	3128.8	1847.7
67.5°	640.5	635.6	832.7	1295.8	1813.2	1749.2	1749.2	1847.7	1709.8	1276.1	798.2
70°	458.3	473.0	596.2	896.8	1128.4	837.6	803.2	768.7	872.1	842.5	645.5
72.5°	300.6	320.3	399.1	537.1	586.3	458.3	458.3	551.9	719.4	679.9	527.2
75°	197.0	202.0	246.3	310.4	290.7	236.5	261.1	369.5	522.3	502.6	374.5
77.5°	133.0	137.9	167.5	202.0	162.6	133.0	142.9	187.2	256.3	256.3	197.0
80°	49.3	54.2	69.0	64.1	73.9	93.6	103.4	128.1	152.7	152.7	133.0
82.5°	0.0	5.0	14.8	34.5	54.2	73.9	83.8	98.6	113.4	128.1	123.2
85°	0.0	5.0	14.8	24.6	39.4	44.3	49.3	34.5	29.6	29.6	24.6
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	9.8	5.0	5.0
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°	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6
2.5°	5168.6	5163.7	5163.7	5148.9	5178.5	5163.7	5173.6	5168.6	5104.6	5153.8	5119.3
5°	5222.9	5257.3	5203.1	5193.3	5153.8	5168.6	5168.6	5119.3	5163.7	5158.8	5148.9
7.5°	5360.8	5301.7	5242.5	5183.4	5173.6	5158.8	5104.6	5084.9	5119.3	5080.0	5139.1
10°	5419.9	5429.7	5341.1	5262.2	5188.4	5084.9	5010.9	4966.6	4912.4	4971.6	5006.1
12.5°	5690.9	5592.4	5439.7	5316.5	5065.2	4961.7	4887.8	4868.0	4961.7	4981.4	4946.9
15°	5784.6	5769.8	5572.6	5296.7	5035.6	4912.4	4927.2	4887.8	4897.6	4848.4	4858.2
17.5°	5976.7	5809.2	5577.6	5232.7	5030.7	5001.1	4912.4	4754.8	4666.0	4626.7	4661.2
20°	6188.6	6025.9	5690.9	5257.3	5075.0	4996.2	4705.5	4513.3	4331.0	4232.5	4237.4
22.5°	6375.8	6173.8	5641.7	5267.2	5114.5	4789.2	4439.4	4060.0	3833.4	3680.6	3685.5
25°	6602.4	6316.7	5661.4	5286.9	5010.9	4459.2	3956.6	3587.0	3316.0	3212.5	3247.0
27.5°	6730.5	6405.4	5769.8	5331.3	4740.0	3991.0	3449.0	3104.1	2946.4	2897.2	2892.3
30°	7114.9	6602.4	5902.8	5242.5	4286.7	3488.5	2985.9	2774.0	2621.3	2576.9	2586.7
32.5°	7686.4	6962.1	6075.2	5010.9	3823.5	3040.0	2685.3	2527.6	2384.7	2301.0	2291.1
35°	8164.3	7578.0	6257.5	4651.3	3286.5	2695.2	2473.5	2276.3	2059.6	1965.9	1941.3
37.5°	9075.9	8272.7	6218.1	4109.3	2774.0	2439.0	2246.8	2005.4	1818.2	1690.0	1675.3
40°	10288.0	9085.7	6025.9	3449.0	2394.6	2212.3	2005.4	1773.8	1542.2	1433.8	1424.0
42.5°	11761.2	10081.1	5676.2	2778.9	2015.2	1985.7	1798.4	1532.4	1325.4	1246.6	1251.5
45°	12958.5	10933.4	5321.3	2232.0	1734.4	1763.9	1601.3	1350.1	1207.2	1143.1	1143.1
47.5°	14022.8	11509.9	4937.1	1842.8	1473.3	1542.2	1399.3	1251.5	1128.4	1079.1	1069.2
50°	15047.7	12096.3	4552.8	1492.9	1256.5	1325.4	1310.6	1192.4	1093.8	1034.7	1039.6
52.5°	15688.2	12189.9	4065.0	1222.0	1098.8	1177.6	1226.9	1118.4	1010.0	975.6	965.7
55°	14904.8	10982.7	3153.4	1005.2	931.2	1034.7	1128.4	1005.2	921.4	862.3	857.3
56°	13850.3	9819.9	2636.0	926.3	882.0	995.3	1093.8	960.8	867.2	832.7	808.0
57.5°	11726.7	8036.3	1946.2	822.8	818.0	926.3	1039.6	916.4	808.0	778.5	778.5
60°	7312.0	4523.2	1177.6	689.8	709.6	822.8	936.2	818.0	719.4	719.4	734.2
62.5°	3330.8	1882.2	714.4	586.3	611.0	709.6	832.7	739.1	684.9	739.1	748.9
65°	1133.2	813.0	517.4	468.1	482.9	586.3	714.4	748.9	744.0	778.5	798.2
67.5°	635.6	522.3	433.6	389.2	379.4	433.6	586.3	748.9	719.4	704.6	714.4
70°	537.1	443.5	384.3	344.9	330.1	349.9	453.3	566.7	507.5	492.7	482.9
72.5°	433.6	369.5	335.1	310.4	266.1	226.6	207.0	216.8	241.5	256.3	280.8
75°	305.5	280.8	280.8	251.3	192.2	142.9	113.4	93.6	64.1	44.3	49.3
77.5°	172.5	172.5	177.4	152.7	123.2	93.6	69.0	49.3	24.6	9.8	5.0
80°	118.2	128.1	137.9	123.2	103.4	83.8	59.1	34.5	14.8	0.0	0.0
82.5°	118.2	133.0	142.9	123.2	103.4	78.8	59.1	34.5	14.8	5.0	0.0
85°	24.6	29.6	34.5	39.4	59.1	59.1	44.3	29.6	14.8	5.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	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)