

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: P647072

Luminaire Tested: **GALN-SA7C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33693.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

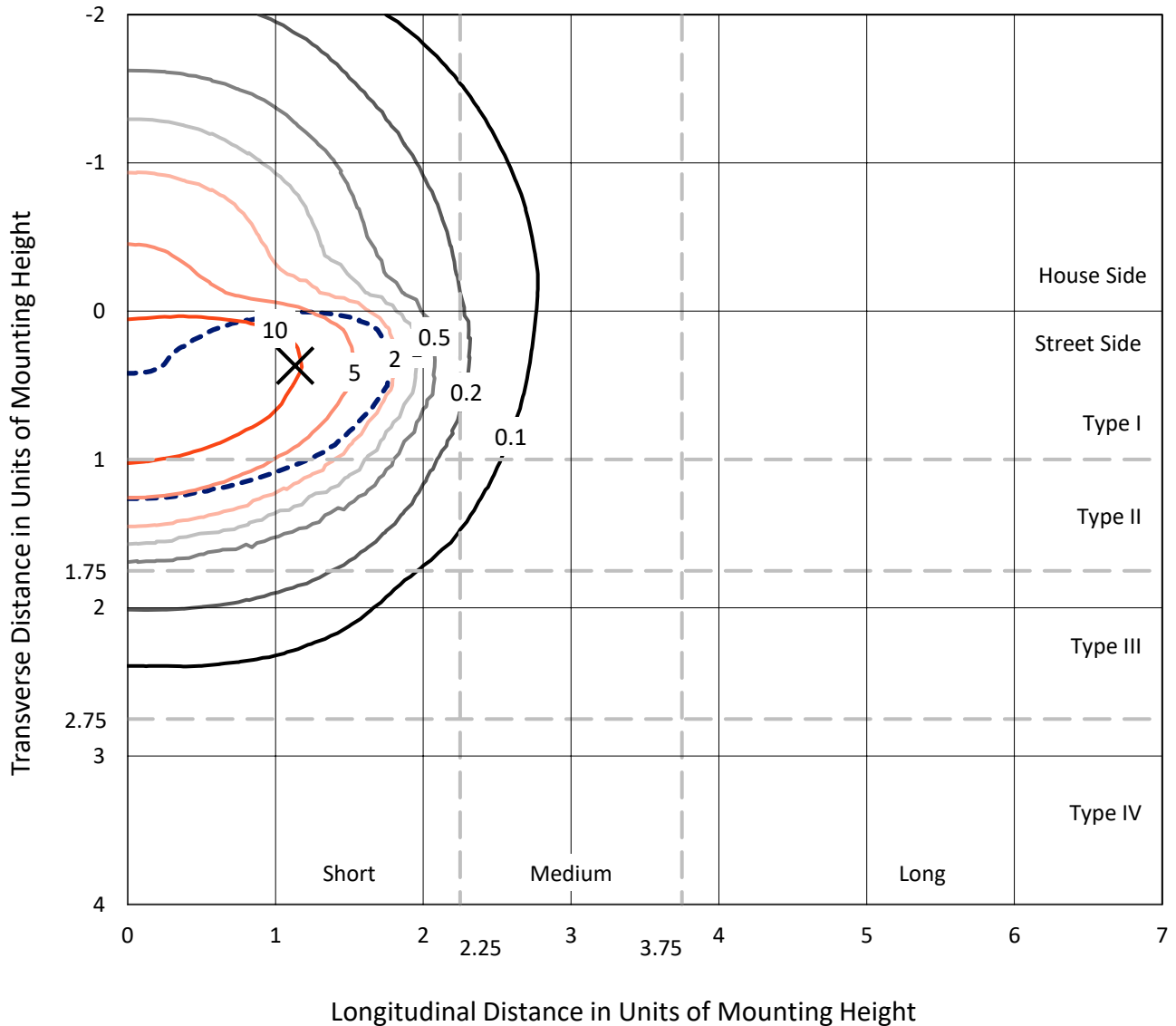
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

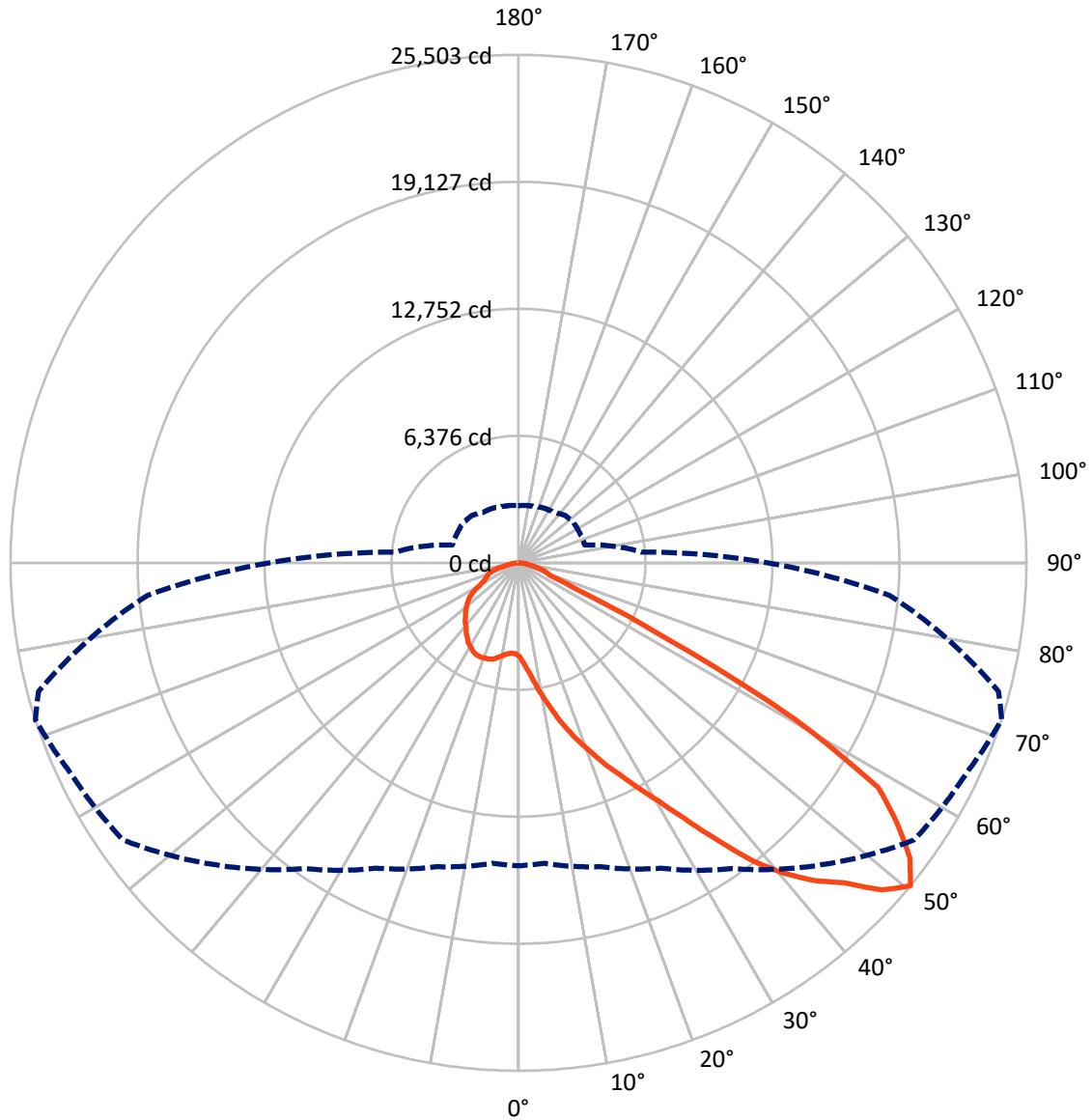
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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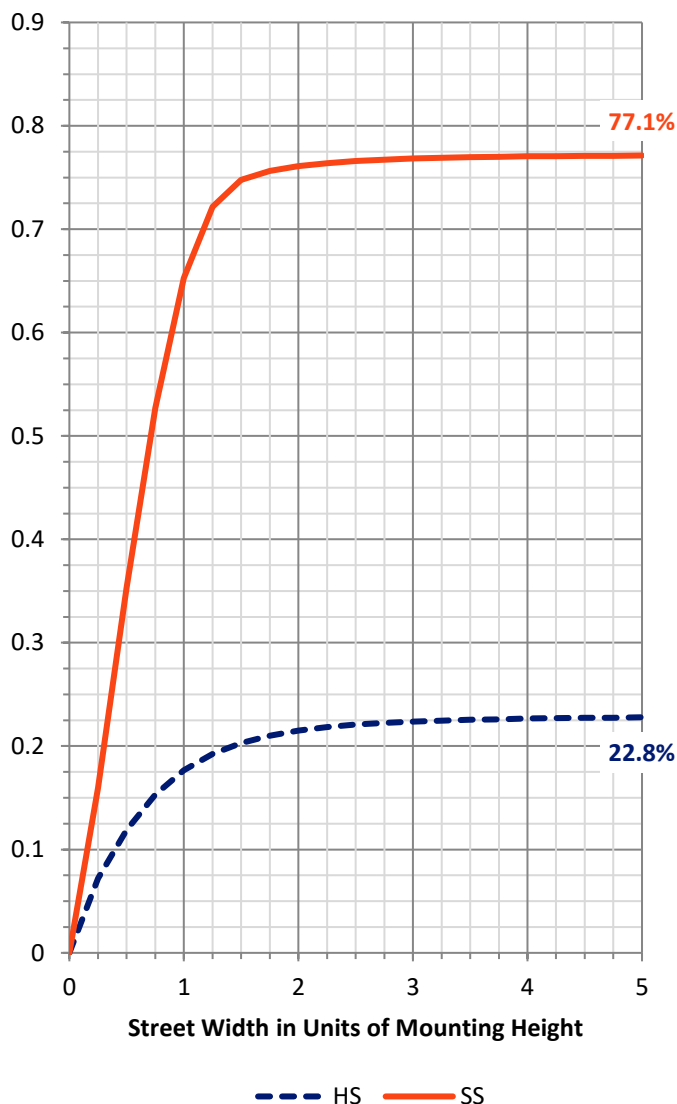
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7719.3	0.0	7719.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25974.0	0.0	25974.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	33693.3	0.0	33693.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.7	1.6
10°-20°	2062.5	6.1
20°-30°	3999.0	11.9
30°-40°	6624.9	19.7
40°-50°	9269.7	27.5
50°-60°	7820.2	23.2
60°-70°	2383.6	7.1
70°-80°	836.2	2.5
80°-90°	145.4	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°	33693.3	100.0
0°-180°	33693.3	100.0

Coefficient of Utilization

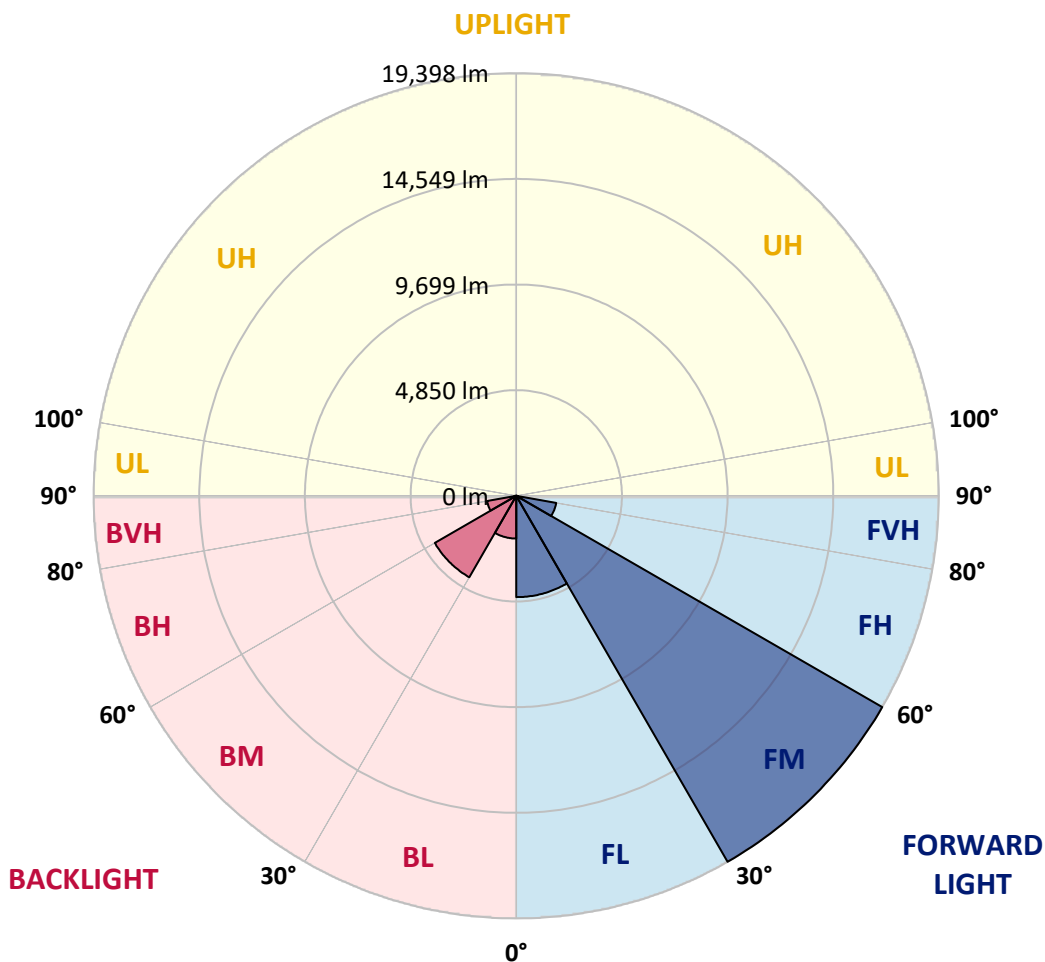


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4650.9	13.8			
FM (30°-60°)	19398.1	57.6			
FH (60°-80°)	1859.8	5.5			G2/5000
FVH (80°-90°)	65.1	0.2			G1/100
BL (0°-30°)	1962.3	5.8	B3/2500		
BM (30°-60°)	4316.8	12.8	B3/5000		
BH (60°-80°)	1360.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.3	0.2			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°	55°	65°	72°	75°	85°
0°	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4
2.5°	6032.9	5995.4	5882.8	5845.3	5711.8	5470.0	5386.6	5140.6	5036.4	4940.6	4828.0
5°	7629.7	7454.6	7442.1	7229.4	6920.9	6741.6	6208.0	5849.4	5520.1	5353.3	5044.8
7.5°	8647.0	8651.1	8651.1	8476.1	8230.0	7775.7	7296.2	6649.9	6153.8	5907.8	5382.5
10°	9614.2	9530.9	9485.0	9468.3	9301.6	8859.6	8346.8	7546.3	6866.8	6579.1	5636.8
12.5°	10298.0	10227.2	10331.4	10277.2	10156.3	9868.6	9385.0	8471.9	7621.3	7233.6	6045.4
15°	10623.2	10673.2	10756.6	10906.7	10852.5	10744.1	10210.5	9422.5	8434.4	7996.6	6408.2
17.5°	11123.5	10986.0	11086.0	11273.6	11423.7	11373.7	11069.3	10110.4	9239.0	8701.2	6895.9
20°	11473.8	11394.5	11444.6	11661.4	11773.9	12057.4	11899.0	11010.9	10010.3	9443.3	7471.3
22.5°	12474.4	12357.6	12195.0	12228.3	12270.1	12470.2	12507.7	11999.1	10906.7	10306.3	8017.5
25°	13708.5	13600.1	13408.2	13212.3	13091.4	13053.9	13183.1	12774.6	11765.6	11144.4	8605.3
27.5°	15067.6	14884.2	14763.2	14358.9	14033.6	13983.6	13921.1	13700.1	12782.9	12111.6	9268.2
30°	16389.3	16243.3	16080.7	15434.5	15096.8	15042.6	14734.1	14796.6	13887.8	13141.4	10018.6
32.5°	17389.9	17402.4	17031.3	16543.5	16226.7	15939.0	15826.4	16005.7	15305.3	14704.9	10856.7
35°	18198.7	18236.2	17881.8	17439.9	17098.1	17298.2	17248.2	17331.5	16998.0	16264.2	11832.3
37.5°	18986.7	18799.1	18419.7	18207.0	18027.8	18357.1	18782.4	18853.3	18915.8	18052.8	12966.3
40°	19115.9	19132.6	18911.6	19061.7	18836.6	19332.7	20320.9	20229.1	20483.4	19728.9	14196.3
42.5°	18932.5	18970.1	19057.6	19270.2	19812.2	20408.4	21876.0	21500.8	21809.3	21138.0	15392.8
45°	18632.3	18478.0	18586.5	19395.3	20333.3	21659.2	23297.7	23005.9	22905.8	22342.9	16818.7
47.5°	17198.1	17356.5	17694.2	18690.7	20099.9	21876.0	24306.7	24240.0	24540.2	24144.0	18115.3
50°	15209.4	15146.8	15797.3	16918.8	18736.6	21450.8	24252.5	24857.0	25503.2	24952.9	18694.8
52.5°	11390.4	11723.9	12282.6	13675.1	16268.4	19132.6	23068.4	24077.3	24602.6	24485.9	18227.9
55°	7200.2	7300.3	7638.0	9293.2	11628.0	15355.3	19774.7	22113.6	23051.7	23489.5	17798.5
57.5°	3498.0	3310.4	3723.2	5053.1	6716.7	10327.2	15251.0	19261.9	21300.7	22092.8	16864.6
60°	1826.1	1897.0	2059.6	2534.9	3473.0	5361.7	9505.9	12837.1	15951.5	17168.9	12782.9
62.5°	1513.5	1538.4	1646.9	1884.5	2309.8	3085.3	4853.0	6258.0	8134.2	9230.7	7271.2
65°	1284.1	1296.6	1413.4	1571.8	1842.8	2172.2	2497.4	2614.1	3164.4	3247.8	2584.9
67.5°	1071.5	1084.0	1209.1	1359.2	1534.3	1621.8	1705.2	1696.9	1759.4	1734.4	1730.2
70°	825.5	838.0	967.2	1125.7	1213.3	1163.2	1421.7	1480.1	1505.1	1525.9	1559.3
72.5°	596.2	621.2	721.3	833.8	788.0	904.8	1171.5	1259.1	1292.5	1304.9	1346.7
75°	433.6	441.9	467.0	433.6	500.3	629.5	825.5	933.9	975.6	988.1	1050.6
77.5°	191.8	196.0	200.1	250.2	321.0	391.9	492.0	579.5	637.9	654.6	671.3
80°	100.1	104.2	129.3	170.9	229.3	287.7	358.5	408.6	446.1	450.3	467.0
82.5°	62.6	66.7	91.7	120.9	162.6	212.7	262.7	304.4	333.6	337.7	341.9
85°	29.2	37.5	54.2	75.0	108.4	137.6	141.7	120.9	129.3	133.4	125.0
87.5°	8.3	12.5	16.7	12.5	16.7	16.7	20.8	25.0	25.0	25.0	29.2
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°	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4	4690.4
2.5°	4765.4	4727.9	4582.0	4527.8	4386.1	4411.0	4336.0	4331.9	4315.2	4311.0	4306.8
5°	4882.2	4765.4	4590.3	4456.9	4377.7	4369.4	4315.2	4315.2	4331.9	4344.3	4315.2
7.5°	5074.0	4940.6	4644.5	4519.5	4448.5	4436.1	4398.6	4369.4	4406.9	4394.4	4361.0
10°	5295.0	5061.5	4748.7	4640.4	4523.6	4494.4	4494.4	4506.9	4444.4	4465.2	4431.9
12.5°	5540.9	5228.2	4882.2	4757.1	4619.5	4602.9	4594.5	4502.8	4536.2	4519.5	4436.1
15°	5853.6	5420.0	5053.1	4840.5	4723.8	4648.7	4540.3	4523.6	4502.8	4461.1	4423.6
17.5°	6191.3	5628.4	5132.3	4865.5	4690.4	4636.2	4552.8	4465.2	4402.7	4411.0	4381.9
20°	6479.0	5820.3	5161.5	4890.5	4665.3	4561.1	4431.9	4377.7	4311.0	4306.8	4302.7
22.5°	6820.9	6078.7	5203.2	4823.8	4590.3	4481.9	4394.4	4298.5	4252.6	4194.2	4223.4
25°	7229.4	6178.8	5211.6	4786.3	4536.2	4344.3	4298.5	4194.2	4177.5	4094.2	4110.8
27.5°	7525.5	6233.0	5144.9	4669.6	4411.0	4265.2	4181.8	4106.7	4077.6	4015.0	3998.3
30°	7921.5	6316.4	5003.1	4523.6	4286.0	4123.4	4073.3	4056.6	3973.3	3906.5	3898.2
32.5°	8371.8	6370.6	4911.4	4373.5	4156.7	4031.7	4056.6	3977.5	3873.2	3814.9	3798.2
35°	8730.4	6391.5	4682.0	4202.6	4069.2	3989.9	3960.8	3944.1	3794.0	3739.8	3698.1
37.5°	9276.5	6345.6	4490.3	4081.7	3973.3	3944.1	3919.1	3806.5	3635.5	3556.4	3498.0
40°	9914.4	6333.1	4244.3	3910.8	3881.6	3914.9	3839.8	3664.8	3427.1	3339.6	3297.8
42.5°	10527.4	6420.6	4090.0	3819.0	3781.5	3794.0	3689.8	3427.1	3310.4	3260.3	3193.6
45°	11552.9	6604.1	3835.7	3677.3	3660.6	3652.2	3527.2	3252.0	3185.3	3122.8	3110.2
47.5°	12478.5	6483.2	3673.1	3531.3	3548.0	3502.1	3235.4	3147.7	3072.7	3010.2	2989.3
50°	12532.7	6195.5	3443.8	3418.8	3423.0	3343.7	3089.4	3031.1	2935.2	2893.4	2864.3
52.5°	12249.3	5724.4	3231.1	3239.5	3252.0	3122.8	2910.1	2868.4	2789.2	2730.9	2714.2
55°	11452.9	4990.6	3022.7	3056.0	3089.4	2843.4	2776.7	2672.5	2610.0	2526.6	2530.7
57.5°	10089.6	4019.1	2730.9	2785.1	2855.9	2584.9	2534.9	2405.6	2313.9	2247.2	2238.9
60°	6762.5	2860.1	2293.1	2313.9	2472.3	2364.0	2359.8	2230.5	2105.5	2047.1	2013.7
62.5°	3989.9	2184.6	1980.4	1959.5	1955.4	2017.9	2122.2	2076.3	1913.7	1801.1	1834.5
65°	2088.8	1888.7	1842.8	1771.9	1730.2	1713.5	1792.8	1813.6	1705.2	1584.3	1575.9
67.5°	1755.3	1755.3	1717.7	1692.7	1634.4	1563.5	1513.5	1446.7	1430.1	1396.7	1355.0
70°	1596.9	1638.5	1626.0	1567.6	1517.6	1438.4	1309.2	1200.7	1096.5	1059.0	1084.0
72.5°	1392.5	1434.2	1434.2	1405.0	1338.3	1217.4	1092.4	967.2	879.7	813.0	804.7
75°	1071.5	1092.4	1142.4	1109.0	1021.5	946.4	817.1	687.9	604.6	542.0	529.5
77.5°	683.8	717.1	717.1	712.9	650.4	579.5	496.1	404.4	341.9	296.1	283.5
80°	454.5	475.3	492.0	475.3	433.6	379.4	316.9	254.3	208.4	170.9	162.6
82.5°	333.6	358.5	371.1	354.4	312.7	271.0	225.1	179.3	133.4	104.2	95.9
85°	129.3	133.4	150.1	179.3	175.1	170.9	137.6	100.1	75.0	54.2	50.0
87.5°	33.4	29.2	33.4	33.4	29.2	25.0	25.0	25.0	25.0	12.5	16.7
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)