

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: P458366

Luminaire Tested: **GALN-SA9D-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46203 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

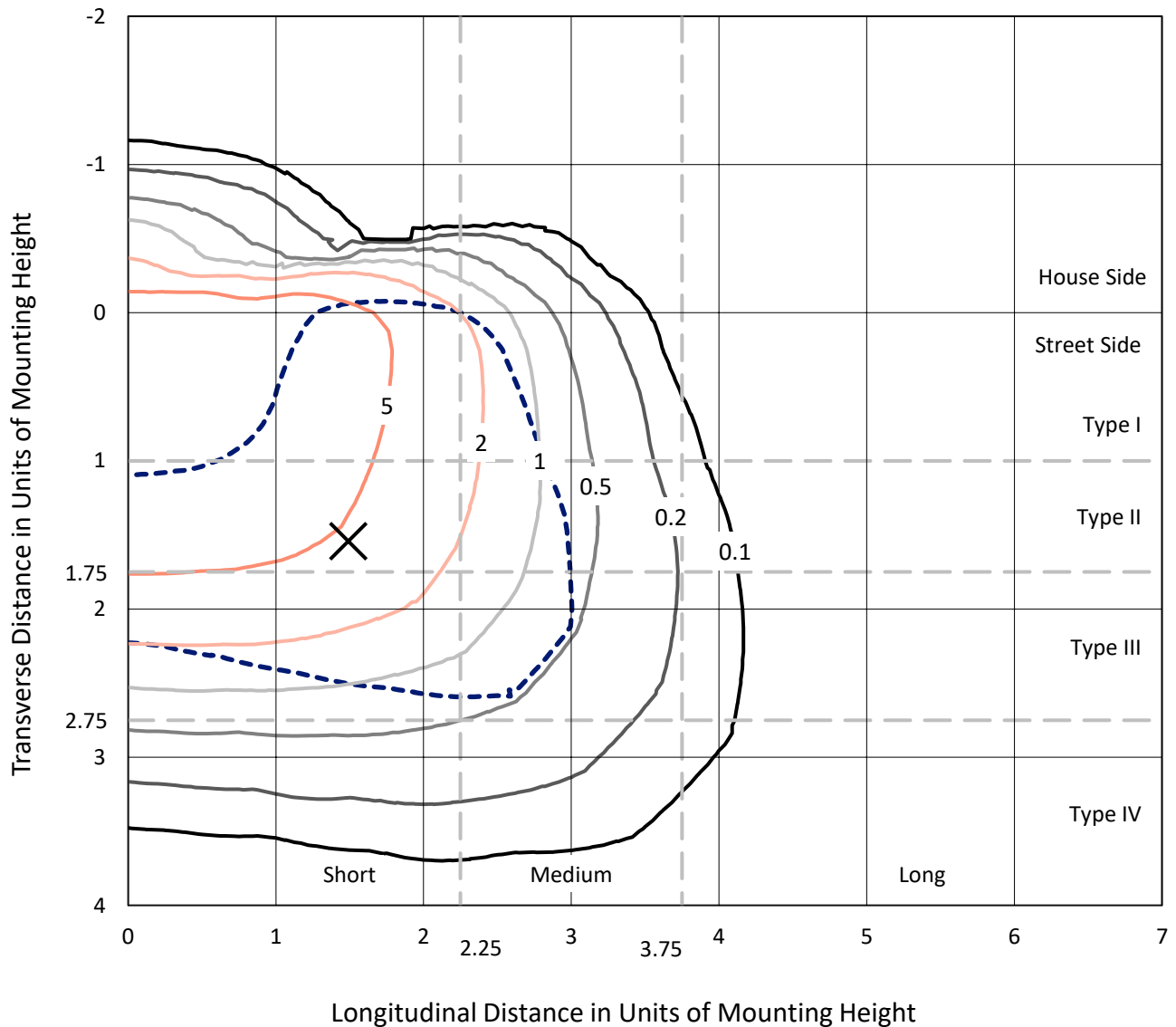
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

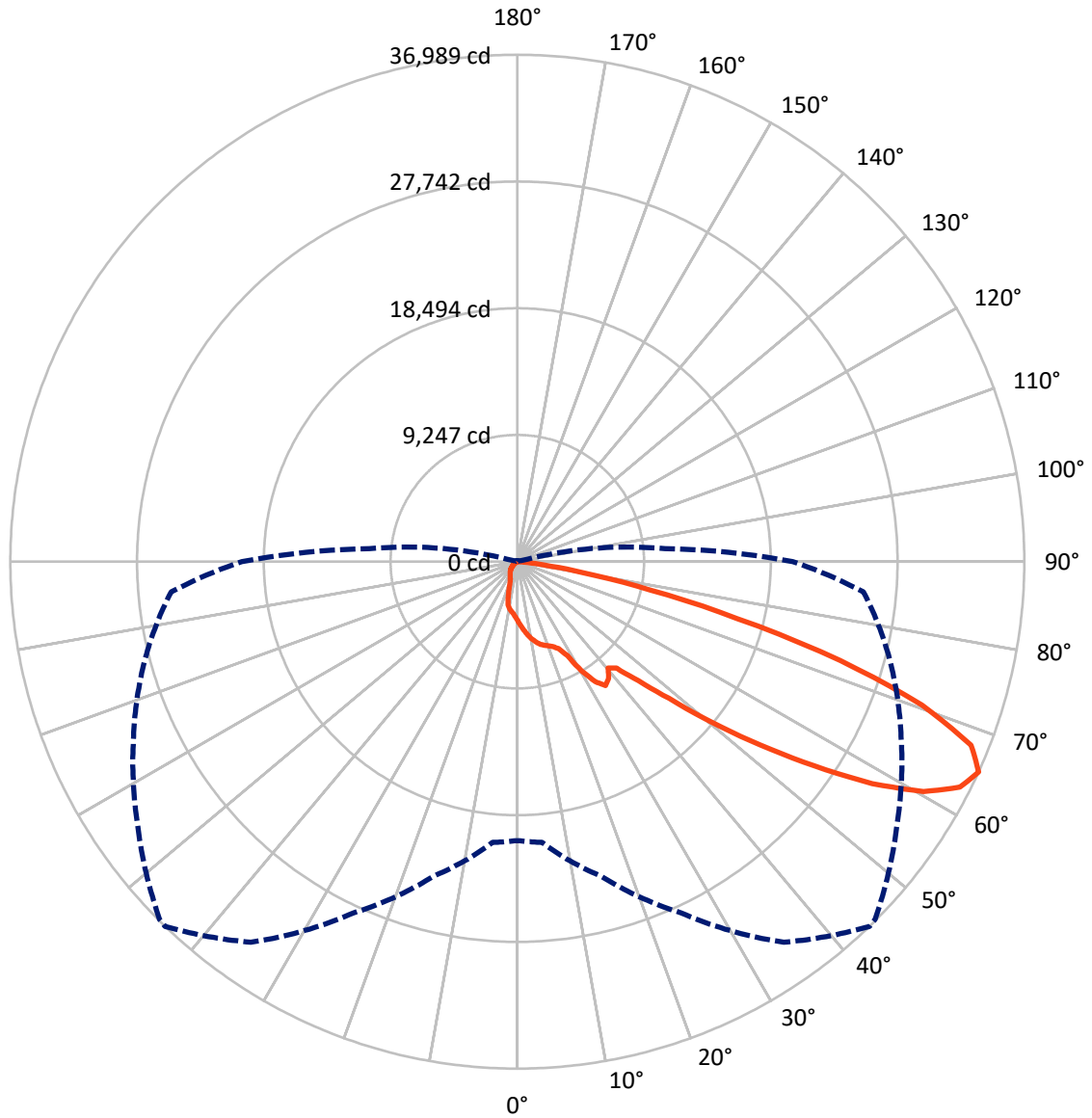
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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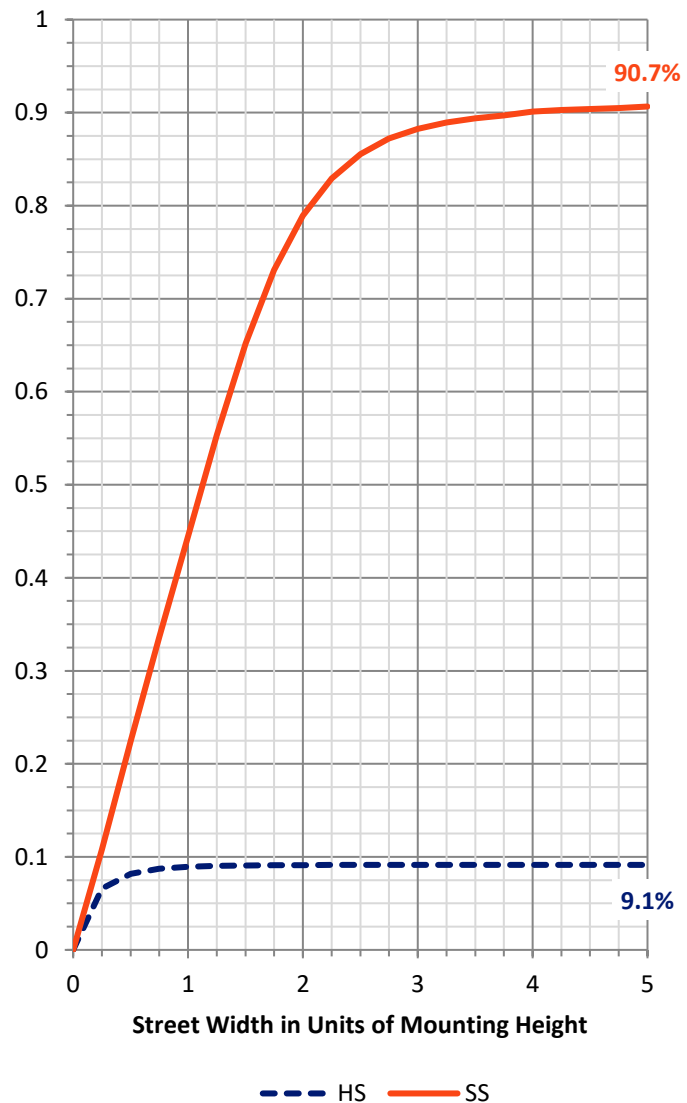
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4256.9	0.0	4256.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	41946.1	0.0	41946.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	46203.0	0.0	46203.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	0.9
10°-20°	1287.2	2.8
20°-30°	2182.6	4.7
30°-40°	3629.0	7.9
40°-50°	6336.4	13.7
50°-60°	12379.0	26.8
60°-70°	14362.5	31.1
70°-80°	5230.1	11.3
80°-90°	368.5	0.8
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°	46203.0	100.0
0°-180°	46203.0	100.0



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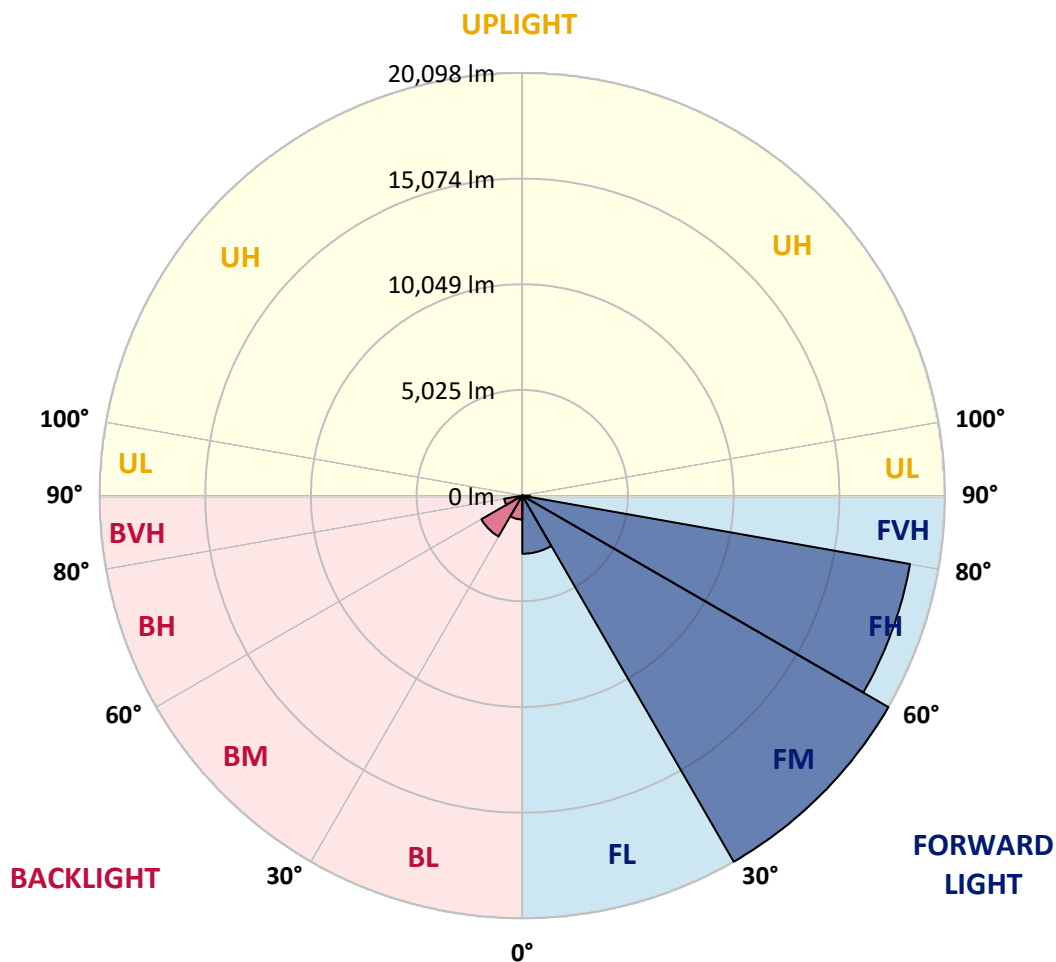
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2763.4	6.0			
FM (30°-60°)	20098.4	43.5			
FH (60°-80°)	18720.9	40.5			G5
FVH (80°-90°)	363.5	0.8			G3/500
BL (0°-30°)	1134.2	2.5	B3/2500		
BM (30°-60°)	2246.0	4.9	B2/2500		
BH (60°-80°)	871.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1
2.5°	4840.3	4819.1	4808.5	4752.0	4709.7	4656.7	4656.7	4589.6	4512.0	4427.2	4349.5
5°	5380.4	5345.1	5299.2	5249.8	5151.0	5009.7	5009.7	4868.5	4706.1	4561.4	4402.5
7.5°	5899.4	5867.7	5790.0	5694.7	5532.3	5384.0	5373.4	5168.6	4974.4	4755.6	4529.6
10°	6354.9	6330.1	6263.1	6079.5	5910.0	5715.8	5712.3	5482.8	5256.9	4988.6	4709.7
12.5°	6672.6	6676.1	6587.9	6411.3	6192.5	6008.9	5994.8	5768.8	5532.3	5242.8	4900.3
15°	6898.6	6898.6	6806.8	6609.1	6411.3	6248.9	6234.8	6037.1	5793.5	5479.3	5108.6
17.5°	6962.1	6983.3	6884.4	6707.9	6549.0	6407.8	6404.3	6238.4	6044.2	5740.6	5320.4
20°	6937.4	6958.6	6880.9	6743.2	6633.8	6552.6	6542.0	6474.9	6294.8	6008.9	5546.4
22.5°	6884.4	6905.6	6849.1	6767.9	6715.0	6739.7	6722.0	6778.5	6683.2	6337.2	5814.7
25°	6895.0	6916.2	6873.8	6827.9	6873.8	7025.6	7071.5	7315.1	7230.4	6753.8	6104.2
27.5°	7226.9	7269.3	7209.2	7230.4	7392.8	7745.9	7834.1	8254.3	7880.0	7283.4	6556.1
30°	7964.8	7936.5	7823.5	7925.9	8490.8	9239.3	9214.5	9147.5	8561.4	7894.1	7092.7
32.5°	8635.5	8610.8	8603.8	9045.1	10068.9	10432.6	10414.9	9765.3	9172.2	8593.2	7622.3
35°	8907.4	8812.1	8790.9	9860.6	11572.9	11092.8	10983.3	10019.5	9913.6	9355.8	8162.5
37.5°	9726.5	9659.4	9331.1	9994.8	10972.7	10813.9	10729.1	10457.3	10704.4	10030.1	8773.2
40°	11414.0	11226.9	10930.4	10280.8	10121.9	10189.0	10273.7	11018.6	11640.0	10951.5	9588.8
42.5°	13511.1	13468.8	12918.0	11707.1	10517.3	10609.1	10718.5	12190.7	12985.1	12339.0	10919.8
45°	16028.4	16088.4	15294.0	13864.2	12303.7	12381.4	12540.3	13920.7	14806.8	14496.1	13013.3
47.5°	18316.1	18270.2	18001.9	16515.6	15075.1	14902.1	15159.9	16141.3	17327.6	17377.0	15611.8
50°	20618.0	20861.6	20462.6	19880.1	18810.4	18446.7	18351.4	18831.6	20639.2	20402.6	18732.7
52.5°	23926.0	24053.1	23304.7	23156.4	23400.0	22220.8	22125.5	22242.0	23859.0	23047.0	21069.9
55°	26005.5	25931.4	25652.4	26810.4	27774.3	26302.1	26182.0	25712.5	26531.5	24914.6	23318.8
57.5°	26662.2	26768.1	27417.7	29511.3	31791.9	30542.2	30323.3	28988.7	28459.2	26655.1	25387.7
60°	26369.1	26563.3	27964.9	31078.8	34242.1	34055.0	33867.9	31626.0	29843.1	28109.7	26838.7
62.5°	24282.6	24554.5	26796.3	30799.9	35071.8	36240.3	36007.3	33271.2	30764.6	28815.8	27092.9
65°	20349.7	20550.9	23770.7	28268.5	33892.6	36988.8	36904.1	33786.7	30909.3	28169.7	25352.4
67.5°	14506.7	15191.6	18174.9	23823.7	30404.5	35710.8	35855.5	33168.8	29550.1	25377.1	20995.7
70°	9119.2	9585.2	11724.7	17055.7	24374.4	31329.5	31806.1	30340.9	25645.4	19781.3	14054.8
72.5°	4349.5	4695.5	6220.7	10796.2	17204.0	24649.8	25027.6	24907.5	19830.7	12462.6	7251.6
75°	1938.2	2068.9	2969.1	5511.1	11106.9	16568.5	17546.5	17708.9	12392.0	6097.1	2820.9
77.5°	988.5	992.1	1391.0	2669.0	5546.4	9885.3	10079.5	10647.9	6718.5	2686.7	981.5
80°	526.0	561.3	737.9	1260.4	2877.3	4868.5	4843.8	5324.0	2979.7	1316.9	328.3
82.5°	236.5	261.3	416.6	660.2	1405.1	1846.4	1991.2	2178.3	1278.0	840.3	144.7
85°	70.6	84.7	204.8	331.9	508.4	533.1	596.7	769.6	723.7	596.7	74.1
87.5°	10.6	10.6	84.7	91.8	74.1	95.3	98.9	109.4	233.0	218.9	38.8
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°	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1
2.5°	4307.2	4282.5	4194.2	4120.1	4056.5	4017.7	3971.8	3943.5	3929.4	3918.8	3922.4
5°	4324.8	4264.8	4113.0	3993.0	3901.2	3802.3	3735.2	3696.4	3678.8	3650.5	3650.5
7.5°	4423.7	4328.4	4116.5	3933.0	3774.1	3639.9	3512.8	3466.9	3435.2	3428.1	3421.0
10°	4564.9	4444.9	4155.4	3901.2	3675.2	3491.6	3311.6	3152.7	3029.1	2955.0	2944.4
12.5°	4741.4	4568.4	4215.4	3880.0	3590.5	3265.7	2789.1	2467.8	2252.4	2185.4	2196.0
15°	4903.8	4716.7	4275.4	3862.3	3435.2	2707.9	2167.7	1800.5	1691.1	1680.5	1684.0
17.5°	5098.0	4875.6	4346.0	3837.6	3008.0	2068.9	1609.9	1511.0	1532.2	1567.5	1564.0
20°	5299.2	5045.1	4430.7	3689.3	2400.7	1556.9	1422.8	1433.4	1465.1	1496.9	1504.0
22.5°	5514.6	5239.2	4529.6	3332.8	1832.3	1355.7	1348.6	1362.8	1394.5	1429.8	1436.9
25°	5811.2	5482.8	4603.7	2866.7	1387.5	1253.3	1267.4	1292.2	1320.4	1359.2	1366.3
27.5°	6192.5	5811.2	4642.6	2259.5	1200.4	1161.5	1165.1	1200.4	1235.7	1271.0	1271.0
30°	6686.7	6203.0	4564.9	1708.8	1108.6	1073.3	1059.1	1080.3	1126.2	1161.5	1165.1
32.5°	7128.0	6573.7	4360.1	1306.3	1041.5	992.1	956.8	960.3	977.9	999.1	1002.7
35°	7569.3	6933.9	4010.6	1098.0	970.9	914.4	861.4	833.2	819.1	808.5	819.1
37.5°	8134.2	7382.2	3544.6	999.1	910.9	840.3	766.1	706.1	656.7	624.9	632.0
40°	8861.5	8003.6	2993.8	935.6	854.4	769.6	670.8	593.1	508.4	480.1	466.0
42.5°	10061.9	8946.2	2414.8	882.6	797.9	695.5	571.9	466.0	388.4	360.1	367.2
45°	11957.7	10136.0	1860.6	826.1	741.4	614.3	480.1	367.2	303.6	289.5	296.6
47.5°	14471.4	11675.3	1433.4	762.6	670.8	526.0	377.8	289.5	250.7	247.1	243.6
50°	16836.8	13108.7	1196.8	692.0	586.1	437.8	310.7	243.6	218.9	215.4	215.4
52.5°	18976.3	14136.0	974.4	610.8	494.3	360.1	261.3	215.4	194.2	183.6	183.6
55°	20879.2	14806.8	790.8	511.9	388.4	286.0	226.0	194.2	169.5	155.3	151.8
57.5°	22316.1	14888.0	593.1	409.5	289.5	222.4	194.2	169.5	141.2	123.6	116.5
60°	22930.5	14185.5	437.8	310.7	215.4	176.5	155.3	137.7	105.9	88.3	84.7
62.5°	22312.6	12819.2	324.8	236.5	165.9	130.6	109.4	102.4	74.1	53.0	49.4
65°	20099.0	10845.6	257.7	180.1	123.6	95.3	70.6	67.1	45.9	24.7	21.2
67.5°	16102.5	8494.3	204.8	134.2	88.3	63.5	45.9	42.4	24.7	7.1	7.1
70°	10471.4	5429.9	165.9	98.9	56.5	42.4	28.2	21.2	14.1	3.5	0.0
72.5°	5179.2	2538.4	134.2	77.7	38.8	21.2	10.6	7.1	10.6	0.0	0.0
75°	2008.8	903.8	98.9	53.0	21.2	10.6	7.1	0.0	3.5	0.0	0.0
77.5°	667.3	300.1	60.0	28.2	14.1	7.1	0.0	0.0	0.0	0.0	0.0
80°	247.1	116.5	31.8	17.7	7.1	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	98.9	45.9	21.2	14.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.4	28.2	14.1	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.3	21.2	14.1	10.6	7.1	3.5	0.0	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)