

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: P530582

Luminaire Tested: **GALN-SA5D-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530582
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-SA5D-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 34043 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

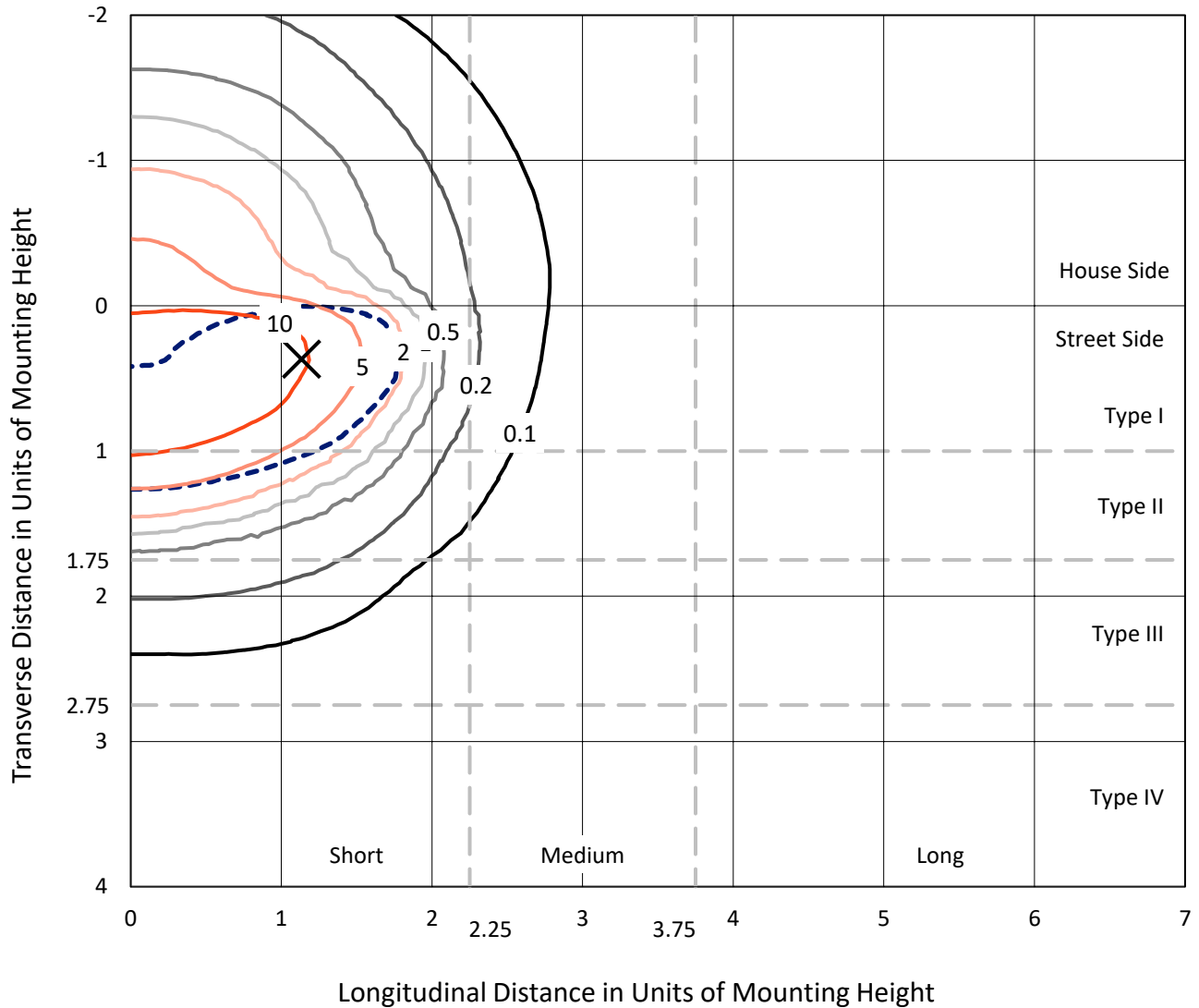
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

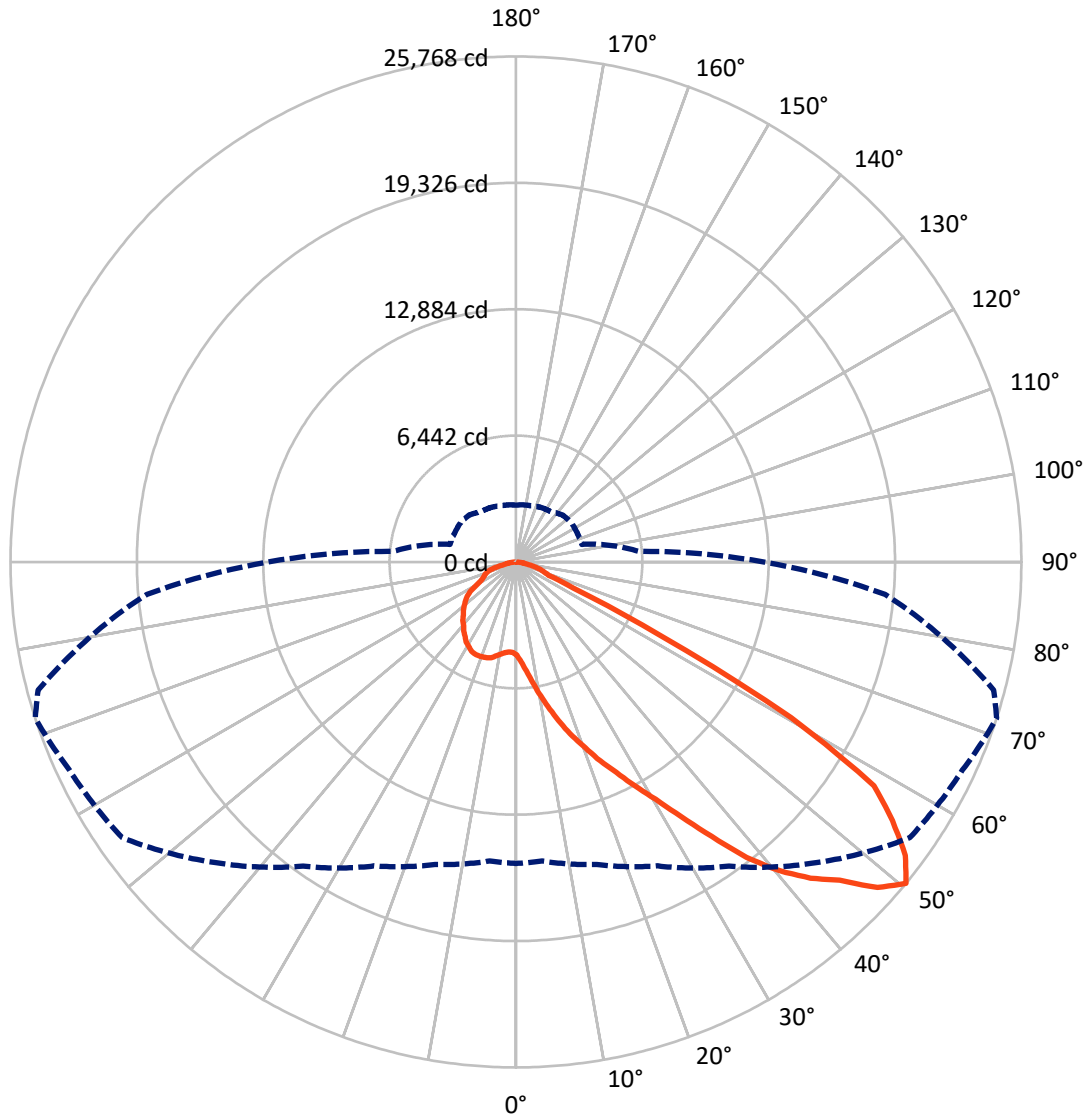
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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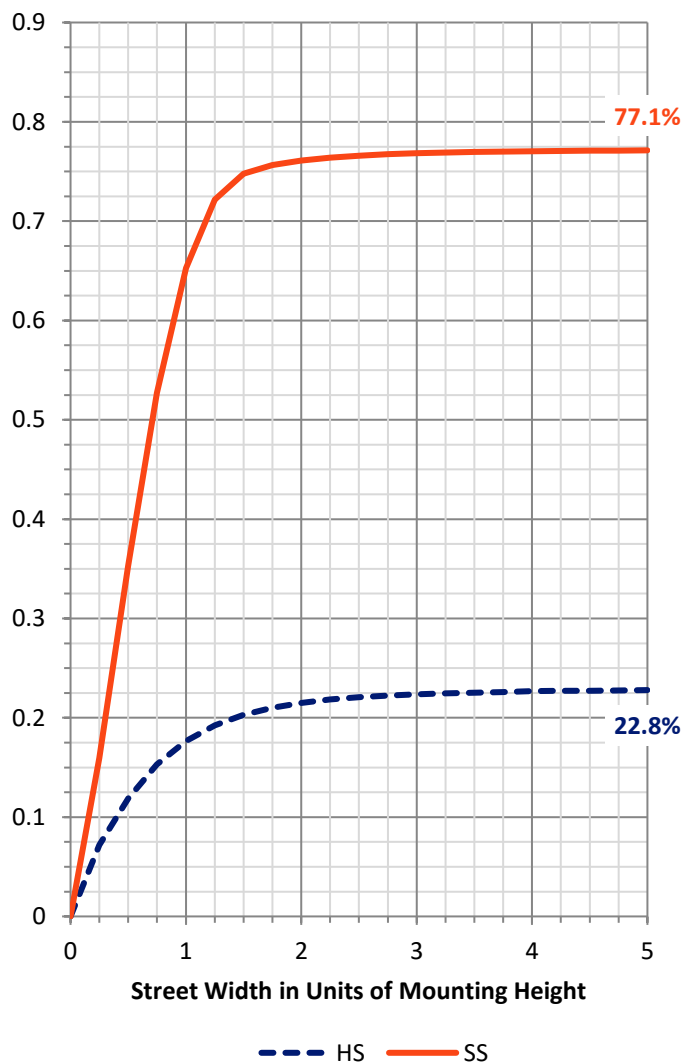
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7799.5	0.0	7799.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26243.6	0.0	26243.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	34043.0	0.0	34043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.4	1.6
10°-20°	2083.9	6.1
20°-30°	4040.5	11.9
30°-40°	6693.7	19.7
40°-50°	9366.0	27.5
50°-60°	7901.4	23.2
60°-70°	2408.3	7.1
70°-80°	844.9	2.5
80°-90°	146.9	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°	34043.0	100.0
0°-180°	34043.0	100.0



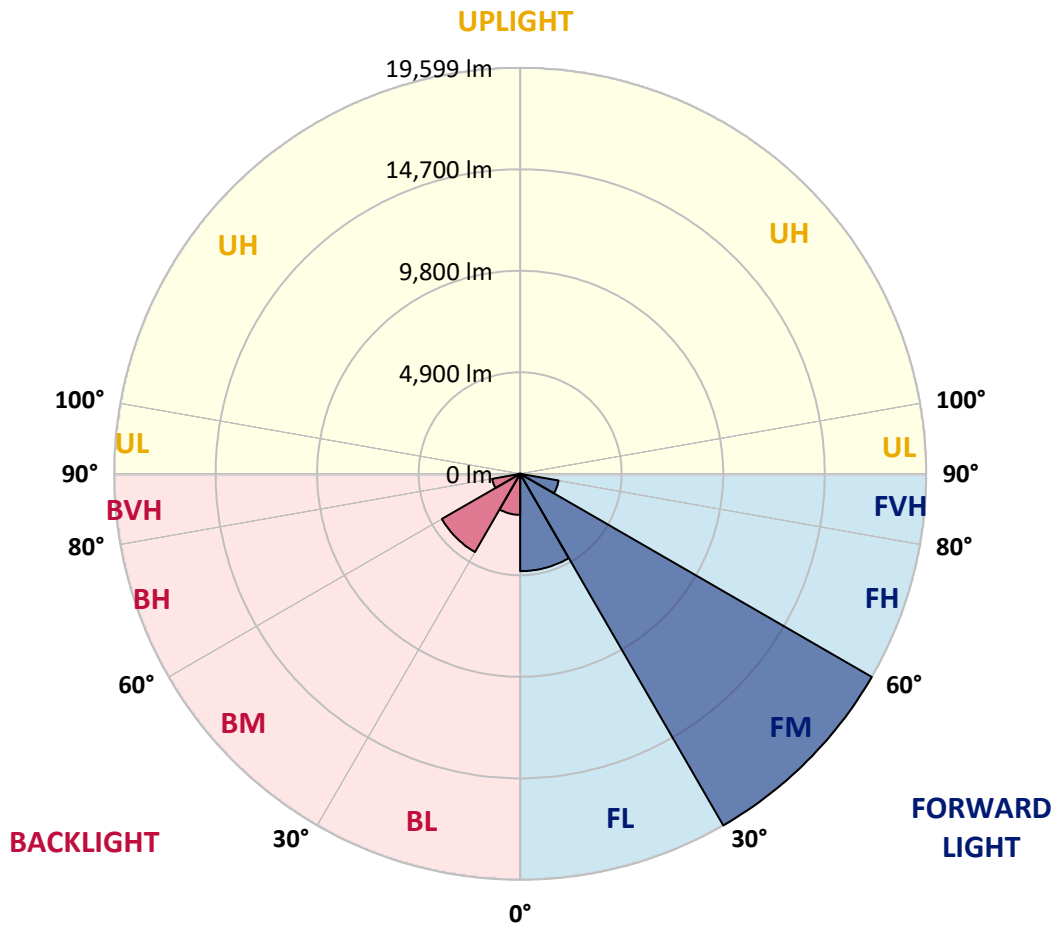
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4699.2	13.8			
FM (30°-60°)	19599.5	57.6			
FH (60°-80°)	1879.1	5.5			G2/5000
FVH (80°-90°)	65.8	0.2			G1/100
BL (0°-30°)	1982.7	5.8	B3/2500		
BM (30°-60°)	4361.6	12.8	B3/5000		
BH (60°-80°)	1374.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	81.1	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°	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1
2.5°	6095.5	6057.6	5943.9	5905.9	5771.1	5526.8	5442.6	5194.0	5088.7	4991.8	4878.1
5°	7708.9	7532.0	7519.3	7304.5	6992.8	6811.6	6272.4	5910.2	5577.4	5408.9	5097.1
7.5°	8736.7	8741.0	8741.0	8564.0	8315.5	7856.3	7371.9	6719.0	6217.7	5969.1	5438.4
10°	9714.1	9629.8	9583.5	9566.6	9398.1	8951.6	8433.4	7624.6	6938.0	6647.3	5695.3
12.5°	10404.9	10333.3	10438.6	10383.8	10261.7	9971.0	9482.4	8559.8	7700.5	7308.7	6108.1
15°	10733.5	10784.0	10868.3	11019.9	10965.2	10855.6	10316.4	9520.3	8521.9	8079.6	6474.6
17.5°	11239.0	11100.0	11201.1	11390.6	11542.3	11491.7	11184.2	10215.3	9334.9	8791.5	6967.5
20°	11592.8	11512.8	11563.3	11782.4	11896.1	12182.6	12022.5	11125.2	10114.2	9541.3	7548.8
22.5°	12603.8	12485.9	12321.6	12355.3	12397.4	12599.6	12637.5	12123.6	11019.9	10413.3	8100.7
25°	13850.7	13741.2	13547.4	13349.5	13227.3	13189.4	13320.0	12907.1	11887.7	11260.0	8694.6
27.5°	15224.0	15038.7	14916.5	14507.9	14179.3	14128.8	14065.6	13842.3	12915.6	12237.3	9364.4
30°	16559.4	16411.9	16247.7	15594.7	15253.5	15198.7	14887.0	14950.2	14031.9	13277.8	10122.7
32.5°	17570.4	17583.0	17208.1	16715.2	16395.1	16104.4	15990.7	16171.8	15464.1	14857.5	10969.4
35°	18387.6	18425.5	18067.5	17620.9	17275.5	17477.7	17427.2	17511.4	17174.4	16433.0	11955.1
37.5°	19183.8	18994.2	18610.9	18396.0	18214.9	18547.7	18977.4	19049.0	19112.2	18240.2	13100.9
40°	19314.4	19331.2	19108.0	19259.6	19032.1	19533.4	20531.8	20439.1	20696.1	19933.6	14343.6
42.5°	19129.0	19166.9	19255.4	19470.2	20017.9	20620.2	22103.1	21723.9	22035.6	21357.4	15552.6
45°	18825.7	18669.9	18779.4	19596.6	20544.4	21884.0	23539.5	23244.6	23143.5	22574.9	16993.3
47.5°	17376.6	17536.7	17877.9	18884.7	20308.5	22103.1	24558.9	24491.5	24794.8	24394.7	18303.4
50°	15367.2	15304.1	15961.2	17094.4	18931.0	21673.4	24504.2	25115.0	25767.9	25211.9	18888.9
52.5°	11508.6	11845.6	12410.1	13817.0	16437.2	19331.2	23307.8	24327.3	24858.0	24740.1	18417.1
55°	7275.0	7376.1	7717.3	9389.7	11748.7	15514.7	19979.9	22343.2	23291.0	23733.3	17983.2
57.5°	3534.3	3344.7	3761.8	5105.6	6786.4	10434.4	15409.4	19461.8	21521.7	22322.1	17039.6
60°	1845.1	1916.7	2081.0	2561.2	3509.0	5417.3	9604.5	12970.3	16117.1	17347.1	12915.6
62.5°	1529.1	1554.4	1663.9	1904.1	2333.7	3117.3	4903.4	6323.0	8218.6	9326.5	7346.6
65°	1297.5	1310.1	1428.0	1588.1	1861.9	2194.7	2523.3	2641.2	3197.3	3281.5	2611.8
67.5°	1082.6	1095.3	1221.6	1373.3	1550.2	1638.7	1722.9	1714.5	1777.7	1752.4	1748.2
70°	834.1	846.7	977.3	1137.4	1225.8	1175.3	1436.5	1495.4	1520.7	1541.8	1575.5
72.5°	602.4	627.7	728.8	842.5	796.2	914.1	1183.7	1272.2	1305.9	1318.5	1360.6
75°	438.1	446.5	471.8	438.1	505.5	636.1	834.1	943.6	985.7	998.4	1061.6
77.5°	193.8	198.0	202.2	252.8	324.4	396.0	497.1	585.5	644.5	661.4	678.2
80°	101.1	105.3	130.6	172.7	231.7	290.7	362.3	412.8	450.7	455.0	471.8
82.5°	63.2	67.4	92.7	122.2	164.3	214.8	265.4	307.5	337.0	341.2	345.4
85°	29.5	37.9	54.8	75.8	109.5	139.0	143.2	122.2	130.6	134.8	126.4
87.5°	8.4	12.6	16.9	12.6	16.9	16.9	21.1	25.3	25.3	25.3	29.5
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°	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1	4739.1
2.5°	4814.9	4777.0	4629.6	4574.8	4431.6	4456.8	4381.0	4376.8	4359.9	4355.7	4351.5
5°	4932.9	4814.9	4638.0	4503.2	4423.1	4414.7	4359.9	4359.9	4376.8	4389.4	4359.9
7.5°	5126.6	4991.8	4692.7	4566.4	4494.8	4482.1	4444.2	4414.7	4452.6	4440.0	4406.3
10°	5349.9	5114.0	4798.1	4688.5	4570.6	4541.1	4541.1	4553.7	4490.5	4511.6	4477.9
12.5°	5598.4	5282.5	4932.9	4806.5	4667.5	4650.6	4642.2	4549.5	4583.2	4566.4	4482.1
15°	5914.4	5476.3	5105.6	4890.7	4772.8	4697.0	4587.4	4570.6	4549.5	4507.4	4469.5
17.5°	6255.6	5686.9	5185.6	4916.0	4739.1	4684.3	4600.1	4511.6	4448.4	4456.8	4427.4
20°	6546.2	5880.7	5215.1	4941.3	4713.8	4608.5	4477.9	4423.1	4355.7	4351.5	4347.3
22.5°	6891.7	6141.8	5257.2	4873.9	4638.0	4528.5	4440.0	4343.1	4296.8	4237.8	4267.3
25°	7304.5	6242.9	5265.6	4836.0	4583.2	4389.4	4343.1	4237.8	4220.9	4136.7	4153.5
27.5°	7603.6	6297.7	5198.2	4718.0	4456.8	4309.4	4225.1	4149.3	4119.8	4056.6	4039.8
30°	8003.8	6382.0	5055.0	4570.6	4330.5	4166.2	4115.6	4098.8	4014.5	3947.1	3938.7
32.5°	8458.7	6436.7	4962.3	4418.9	4199.9	4073.5	4098.8	4018.7	3913.4	3854.4	3837.6
35°	8821.0	6457.8	4730.7	4246.2	4111.4	4031.4	4001.9	3985.0	3833.4	3778.6	3736.5
37.5°	9372.8	6411.4	4536.9	4124.0	4014.5	3985.0	3959.8	3846.0	3673.3	3593.3	3534.3
40°	10017.4	6398.8	4288.3	3951.3	3921.8	3955.5	3879.7	3702.8	3462.7	3374.2	3332.1
42.5°	10636.6	6487.3	4132.5	3858.7	3820.7	3833.4	3728.1	3462.7	3344.7	3294.2	3226.8
45°	11672.9	6672.6	3875.5	3715.4	3698.6	3690.2	3563.8	3285.8	3218.4	3155.2	3142.5
47.5°	12608.0	6550.5	3711.2	3568.0	3584.8	3538.5	3268.9	3180.4	3104.6	3041.4	3020.4
50°	12662.8	6259.8	3479.5	3454.3	3458.5	3378.4	3121.5	3062.5	2965.6	2923.5	2894.0
52.5°	12376.4	5783.8	3264.7	3273.1	3285.8	3155.2	2940.3	2898.2	2818.2	2759.2	2742.3
55°	11571.8	5042.4	3054.1	3087.8	3121.5	2872.9	2805.5	2700.2	2637.0	2552.8	2557.0
57.5°	10194.3	4060.9	2759.2	2814.0	2885.6	2611.8	2561.2	2430.6	2337.9	2270.5	2262.1
60°	6832.7	2889.8	2316.9	2337.9	2498.0	2388.5	2384.3	2253.7	2127.3	2068.3	2034.6
62.5°	4031.4	2207.4	2000.9	1979.9	1975.7	2038.9	2144.2	2097.8	1933.5	1819.8	1853.5
65°	2110.5	1908.3	1861.9	1790.3	1748.2	1731.3	1811.4	1832.4	1722.9	1600.8	1592.3
67.5°	1773.5	1773.5	1735.6	1710.3	1651.3	1579.7	1529.1	1461.7	1444.9	1411.2	1369.1
70°	1613.4	1655.5	1642.9	1583.9	1533.4	1453.3	1322.7	1213.2	1107.9	1070.0	1095.3
72.5°	1407.0	1449.1	1449.1	1419.6	1352.2	1230.1	1103.7	977.3	888.8	821.4	813.0
75°	1082.6	1103.7	1154.2	1120.5	1032.1	956.2	825.7	695.1	610.8	547.6	535.0
77.5°	690.9	724.6	724.6	720.3	657.2	585.5	501.3	408.6	345.4	299.1	286.5
80°	459.2	480.2	497.1	480.2	438.1	383.3	320.2	257.0	210.6	172.7	164.3
82.5°	337.0	362.3	374.9	358.1	315.9	273.8	227.5	181.1	134.8	105.3	96.9
85°	130.6	134.8	151.7	181.1	176.9	172.7	139.0	101.1	75.8	54.8	50.6
87.5°	33.7	29.5	33.7	33.7	29.5	25.3	25.3	25.3	25.3	12.6	16.9
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)