

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: P534326

Luminaire Tested: **GALN-SA9D-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534326
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-SA9D-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 61627 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

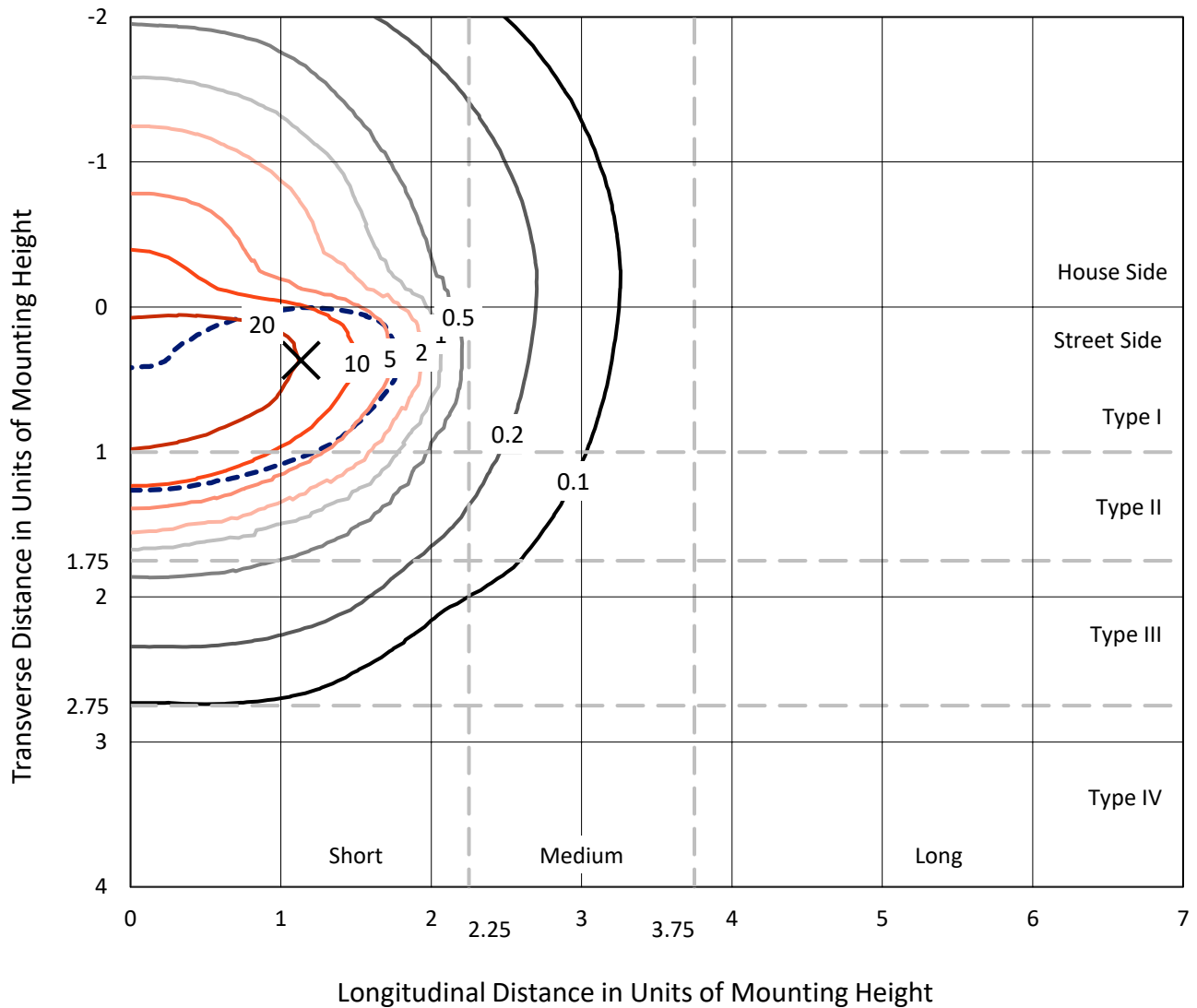
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

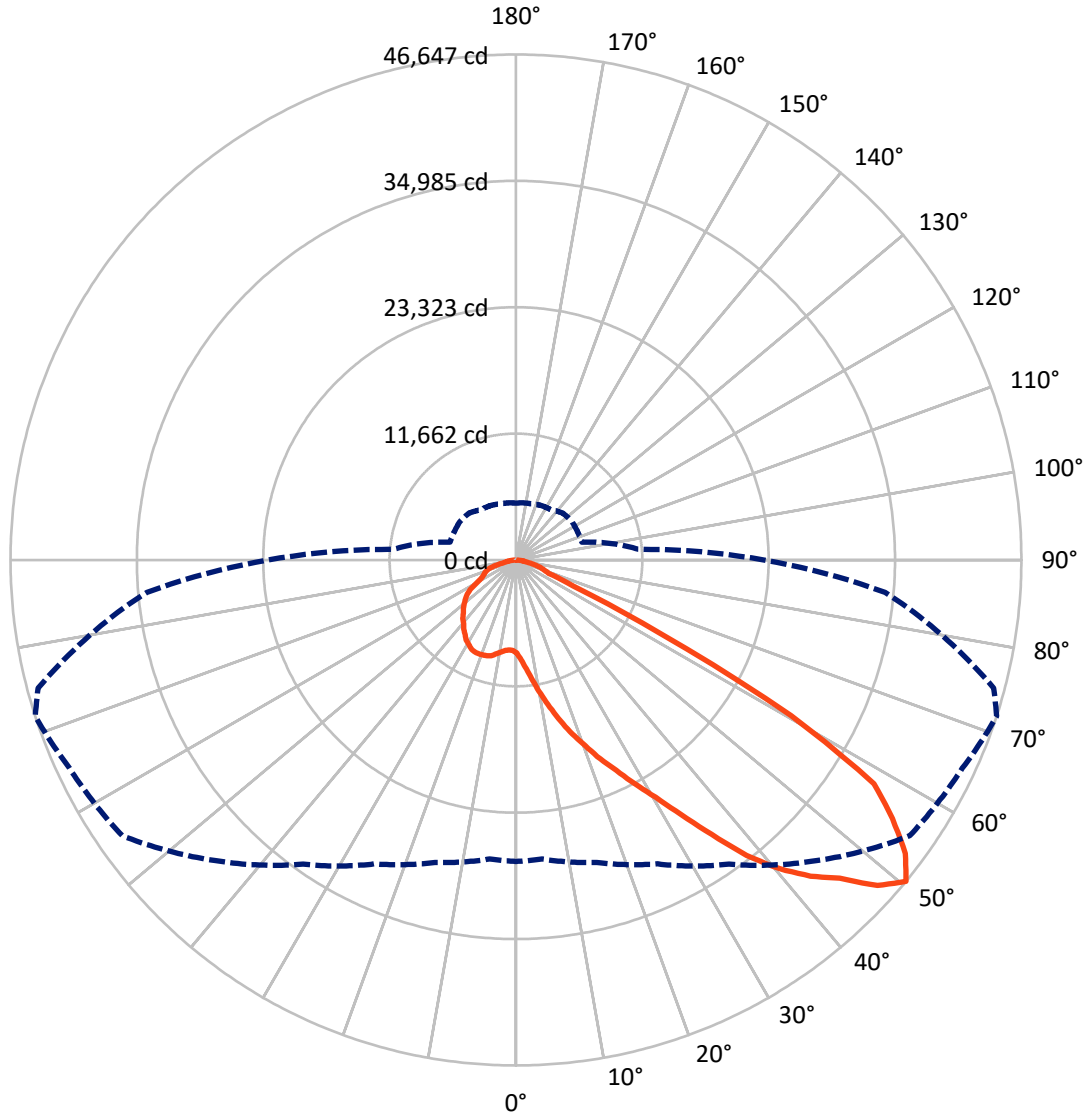
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 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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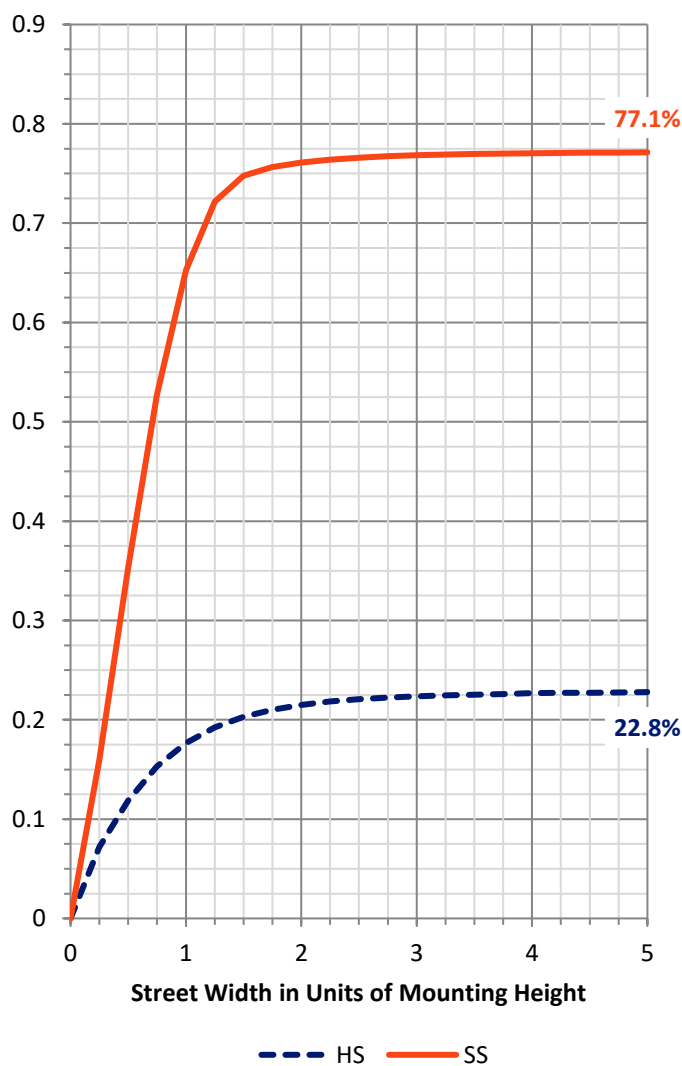
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14119.1	0.0	14119.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	47507.9	0.0	47507.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	61627.0	0.0	61627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.1	1.6
10°-20°	3772.4	6.1
20°-30°	7314.4	11.9
30°-40°	12117.4	19.7
40°-50°	16954.9	27.5
50°-60°	14303.6	23.2
60°-70°	4359.7	7.1
70°-80°	1529.5	2.5
80°-90°	265.9	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°	61627.0	100.0
0°-180°	61627.0	100.0

Coefficient of Utilization



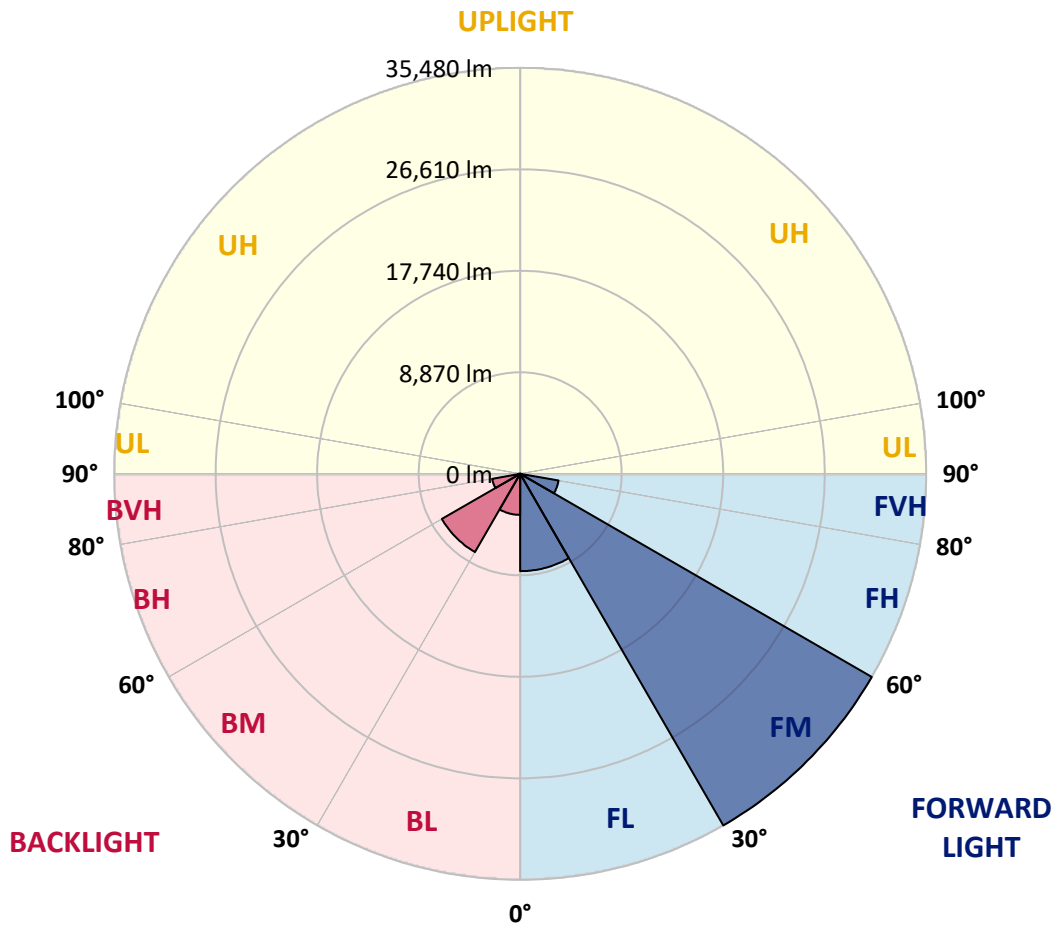
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8506.7	13.8			
FM (30°-60°)	35480.3	57.6			
FH (60°-80°)	3401.7	5.5			G2/5000
FVH (80°-90°)	119.1	0.2			G2/225
BL (0°-30°)	3589.1	5.8	B4/5000		
BM (30°-60°)	7895.6	12.8	B4/8500		
BH (60°-80°)	2487.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	146.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0
2.5°	11034.5	10965.9	10760.0	10691.3	10447.3	10005.0	9852.5	9402.6	9211.9	9036.6	8830.7
5°	13955.2	13634.9	13612.0	13223.1	12658.8	12330.9	11354.8	10699.0	10096.5	9791.5	9227.2
7.5°	15815.9	15823.5	15823.5	15503.2	15053.3	14222.1	13345.1	12163.1	11255.7	10805.7	9844.9
10°	17585.1	17432.5	17348.7	17318.1	17013.1	16204.8	15266.8	13802.7	12559.7	12033.5	10310.1
12.5°	18835.7	18706.0	18896.7	18797.6	18576.4	18050.2	17165.6	15495.6	13939.9	13230.7	11057.4
15°	19430.5	19522.0	19674.5	19949.0	19849.9	19651.6	18675.5	17234.3	15427.0	14626.2	11720.8
17.5°	20345.6	20093.9	20277.0	20620.1	20894.6	20803.1	20246.4	18492.5	16898.7	15915.0	12613.0
20°	20986.2	20841.3	20932.8	21329.3	21535.2	22053.8	21764.0	20139.7	18309.5	17272.4	13665.4
22.5°	22816.3	22602.8	22305.4	22366.4	22442.7	22808.7	22877.3	21947.0	19949.0	18850.9	14664.4
25°	25073.6	24875.3	24524.5	24166.1	23945.0	23876.3	24112.7	23365.4	21520.0	20383.7	15739.6
27.5°	27559.6	27224.0	27002.9	26263.2	25668.4	25576.9	25462.5	25058.3	23380.6	22152.9	16952.1
30°	29976.9	29710.0	29412.6	28230.6	27613.0	27513.8	26949.5	27063.9	25401.5	24036.5	18324.8
32.5°	31807.1	31830.0	31151.3	30259.1	29679.5	29153.4	28947.5	29275.4	27994.2	26896.1	19857.5
35°	33286.5	33355.2	32707.0	31898.6	31273.3	31639.4	31547.9	31700.4	31090.3	29748.2	21642.0
37.5°	34727.8	34384.6	33690.7	33301.8	32973.9	33576.3	34354.1	34483.8	34598.2	33019.6	23716.2
40°	34964.2	34994.7	34590.5	34865.1	34453.3	35360.7	37168.1	37000.3	37465.5	36085.2	25965.8
42.5°	34628.7	34697.3	34857.4	35246.4	36237.7	37328.2	40012.5	39326.2	39890.5	38662.7	28154.4
45°	34079.6	33797.5	33995.7	35475.1	37190.9	39615.9	42612.9	42079.1	41896.0	40866.6	30762.4
47.5°	31456.3	31746.1	32363.8	34186.4	36763.9	40012.5	44458.3	44336.3	44885.3	44160.9	33134.0
50°	27818.9	27704.5	28894.1	30945.4	34270.3	39234.6	44359.2	45464.9	46646.9	45640.3	34194.0
52.5°	20833.6	21443.7	22465.6	25012.6	29755.8	34994.7	42193.4	44038.9	44999.7	44786.2	33339.9
55°	13169.7	13352.7	13970.4	16997.9	21268.3	28085.8	36169.1	40447.1	42162.9	42963.7	32554.5
57.5°	6398.0	6054.9	6809.8	9242.4	12285.1	18889.1	27895.1	35231.1	38960.1	40409.0	30846.3
60°	3340.1	3469.7	3767.1	4636.5	6352.3	9806.8	17386.8	23479.8	29176.2	31403.0	23380.6
62.5°	2768.2	2813.9	3012.2	3446.9	4224.7	5643.1	8876.4	11446.3	14877.9	16883.5	13299.4
65°	2348.7	2371.6	2585.1	2874.9	3370.6	3973.0	4567.8	4781.4	5788.0	5940.5	4728.0
67.5°	1959.8	1982.7	2211.5	2486.0	2806.3	2966.4	3118.9	3103.7	3218.1	3172.3	3164.7
70°	1509.9	1532.8	1769.2	2059.0	2219.1	2127.6	2600.4	2707.2	2752.9	2791.0	2852.0
72.5°	1090.5	1136.2	1319.3	1525.2	1441.3	1654.8	2142.8	2303.0	2364.0	2386.9	2463.1
75°	793.1	808.3	854.1	793.1	915.1	1151.5	1509.9	1708.2	1784.4	1807.3	1921.7
77.5°	350.8	358.4	366.0	457.5	587.2	716.8	899.8	1060.0	1166.7	1197.2	1227.8
80°	183.0	190.6	236.4	312.7	419.4	526.2	655.8	747.3	816.0	823.6	854.1
82.5°	114.4	122.0	167.8	221.1	297.4	388.9	480.4	556.7	610.1	617.7	625.3
85°	53.4	68.6	99.1	137.3	198.3	251.7	259.3	221.1	236.4	244.0	228.8
87.5°	15.3	22.9	30.5	22.9	30.5	30.5	38.1	45.8	45.8	45.8	53.4
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°	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0	8579.0
2.5°	8716.3	8647.6	8380.7	8281.6	8022.3	8068.1	7930.8	7923.2	7892.7	7885.1	7877.4
5°	8929.8	8716.3	8396.0	8152.0	8007.1	7991.8	7892.7	7892.7	7923.2	7946.1	7892.7
7.5°	9280.6	9036.6	8495.1	8266.3	8136.7	8113.8	8045.2	7991.8	8060.5	8037.6	7976.6
10°	9684.7	9257.7	8685.8	8487.5	8274.0	8220.6	8220.6	8243.5	8129.1	8167.2	8106.2
12.5°	10134.7	9562.7	8929.8	8701.0	8449.4	8418.9	8403.6	8235.8	8296.9	8266.3	8113.8
15°	10706.6	9913.5	9242.4	8853.5	8640.0	8502.7	8304.5	8274.0	8235.8	8159.6	8091.0
17.5°	11324.3	10294.8	9387.3	8899.3	8579.0	8479.9	8327.4	8167.2	8052.8	8068.1	8014.7
20°	11850.5	10645.6	9440.7	8945.0	8533.2	8342.6	8106.2	8007.1	7885.1	7877.4	7869.8
22.5°	12475.8	11118.4	9517.0	8823.0	8396.0	8197.7	8037.6	7862.2	7778.3	7671.5	7724.9
25°	13223.1	11301.4	9532.2	8754.4	8296.9	7946.1	7862.2	7671.5	7641.0	7488.5	7519.0
27.5°	13764.5	11400.5	9410.2	8540.9	8068.1	7801.2	7648.7	7511.4	7458.0	7343.6	7313.1
30°	14489.0	11553.1	9150.9	8274.0	7839.3	7541.9	7450.4	7419.9	7267.4	7145.4	7130.1
32.5°	15312.6	11652.2	8983.2	7999.4	7602.9	7374.1	7419.9	7275.0	7084.4	6977.6	6947.1
35°	15968.4	11690.3	8563.8	7686.8	7442.8	7297.9	7244.5	7214.0	6939.5	6840.3	6764.1
37.5°	16967.4	11606.4	8213.0	7465.6	7267.4	7214.0	7168.2	6962.3	6649.7	6504.8	6398.0
40°	18134.1	11583.6	7763.0	7153.0	7099.6	7160.6	7023.3	6703.1	6268.4	6108.3	6032.0
42.5°	19255.1	11743.7	7480.9	6985.2	6916.6	6939.5	6748.8	6268.4	6054.9	5963.4	5841.3
45°	21131.0	12079.2	7015.7	6725.9	6695.4	6680.2	6451.4	5948.1	5826.1	5711.7	5688.8
47.5°	22824.0	11858.1	6718.3	6459.0	6489.5	6405.7	5917.6	5757.5	5620.2	5505.8	5467.7
50°	22923.1	11331.9	6298.9	6253.1	6260.8	6115.9	5650.7	5543.9	5368.6	5292.3	5238.9
52.5°	22404.5	10470.2	5910.0	5925.2	5948.1	5711.7	5322.8	5246.5	5101.6	4994.9	4964.4
55°	20948.0	9128.1	5528.7	5589.7	5650.7	5200.8	5078.8	4888.1	4773.7	4621.2	4628.8
57.5°	18454.4	7351.3	4994.9	5094.0	5223.7	4728.0	4636.5	4400.1	4232.3	4110.3	4095.0
60°	12369.0	5231.3	4194.2	4232.3	4522.1	4323.8	4316.2	4079.8	3851.0	3744.3	3683.3
62.5°	7297.9	3995.9	3622.2	3584.1	3576.5	3690.9	3881.5	3797.6	3500.2	3294.3	3355.3
65°	3820.5	3454.5	3370.6	3241.0	3164.7	3134.2	3279.1	3317.2	3118.9	2897.8	2882.5
67.5°	3210.5	3210.5	3141.8	3096.1	2989.3	2859.7	2768.2	2646.1	2615.6	2554.6	2478.4
70°	2920.7	2996.9	2974.1	2867.3	2775.8	2630.9	2394.5	2196.2	2005.6	1936.9	1982.7
72.5°	2547.0	2623.3	2623.3	2569.9	2447.9	2226.7	1998.0	1769.2	1609.0	1487.0	1471.8
75°	1959.8	1998.0	2089.5	2028.5	1868.3	1731.1	1494.7	1258.3	1105.7	991.4	968.5
77.5°	1250.6	1311.6	1311.6	1304.0	1189.6	1060.0	907.5	739.7	625.3	541.4	518.6
80°	831.2	869.3	899.8	869.3	793.1	693.9	579.6	465.2	381.3	312.7	297.4
82.5°	610.1	655.8	678.7	648.2	571.9	495.7	411.8	327.9	244.0	190.6	175.4
85°	236.4	244.0	274.5	327.9	320.3	312.7	251.7	183.0	137.3	99.1	91.5
87.5°	61.0	53.4	61.0	61.0	53.4	45.8	45.8	45.8	45.8	22.9	30.5
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)