

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: P532420

Luminaire Tested: **GALN-SA7D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42464 lumens
Efficiency: N/A
Efficacy: 98.1 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

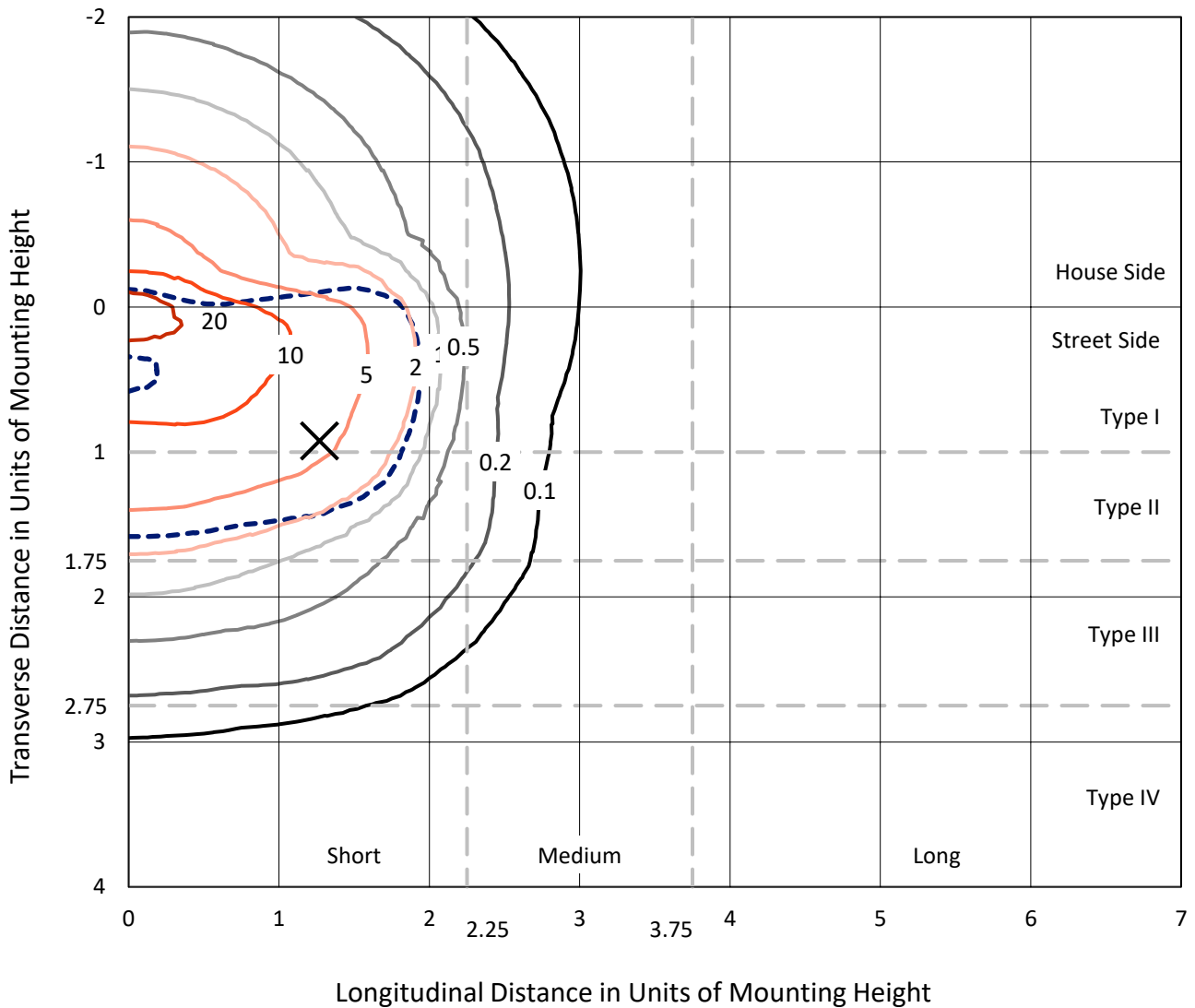
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

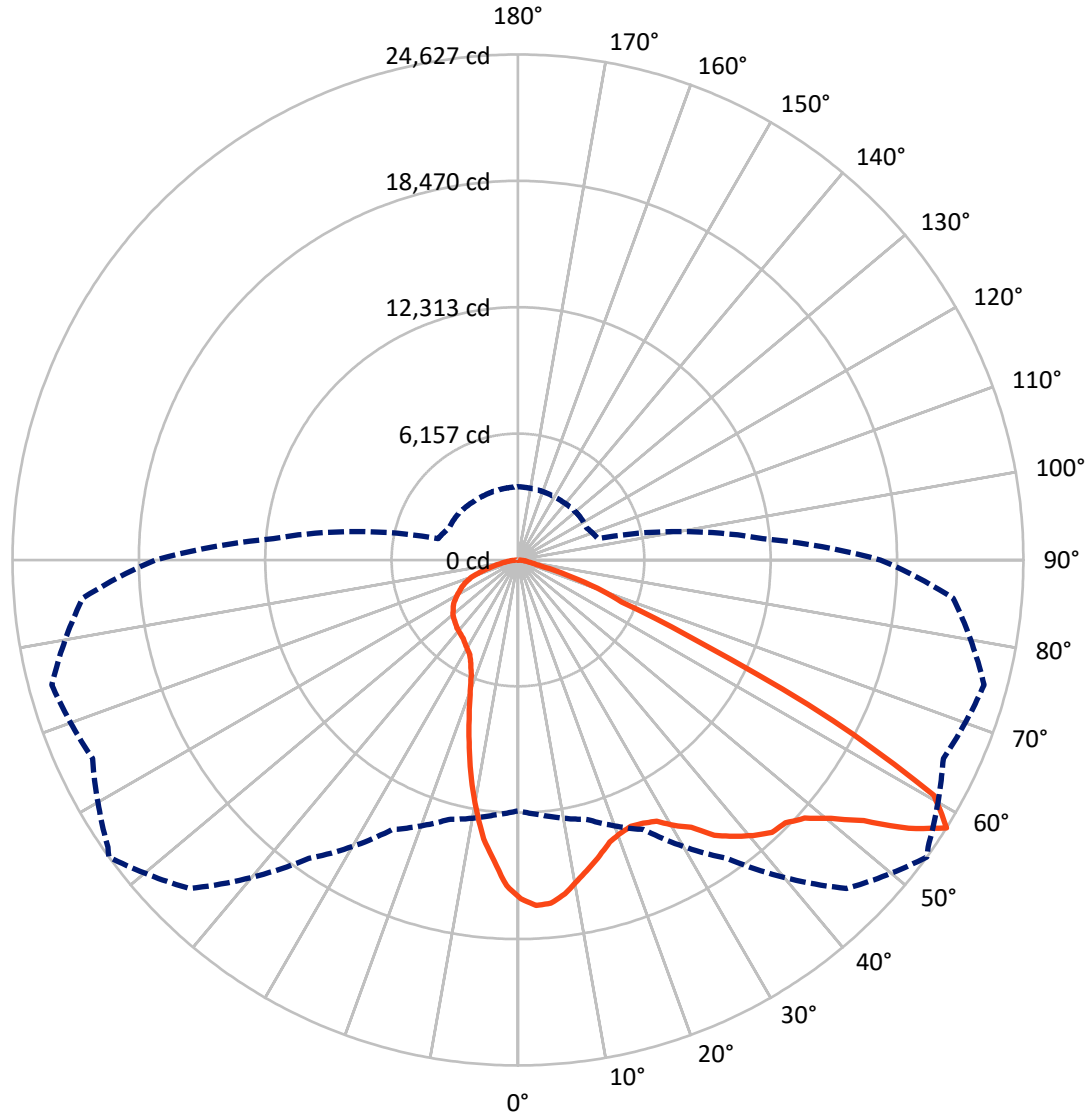
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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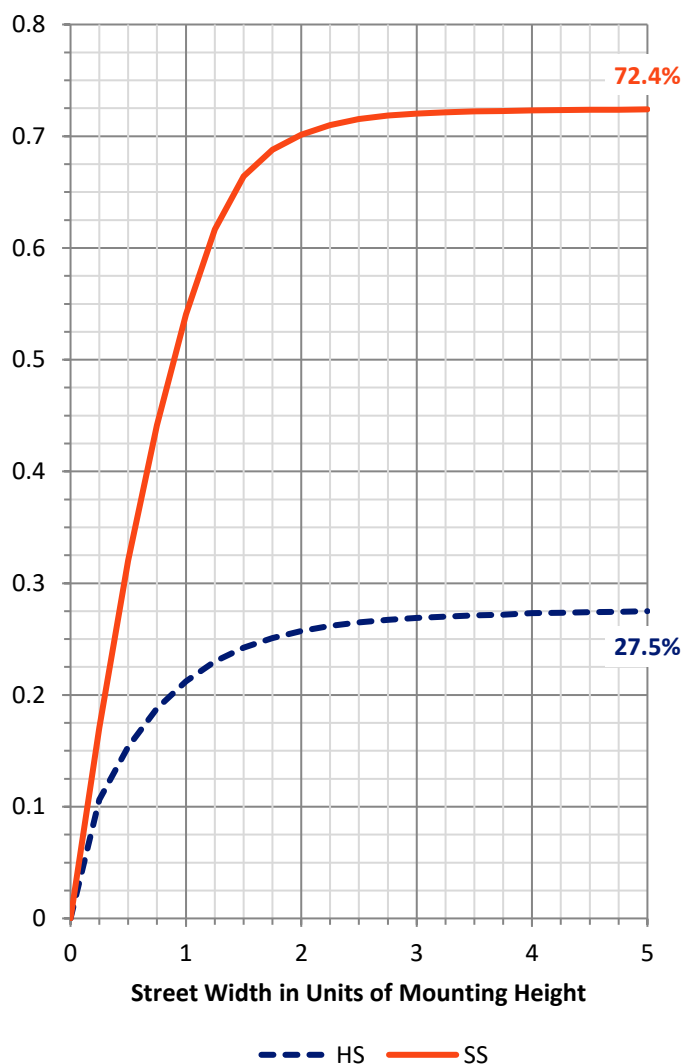
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11747.9	0.0	11747.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	30716.1	0.0	30716.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	42464.0	0.0	42464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1423.4	3.4
10°-20°	3295.7	7.8
20°-30°	4630.5	10.9
30°-40°	6473.6	15.2
40°-50°	8764.0	20.6
50°-60°	10674.9	25.1
60°-70°	5559.9	13.1
70°-80°	1424.7	3.4
80°-90°	217.3	0.5
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°	42464.0	100.0
0°-180°	42464.0	100.0

Coefficient of Utilization



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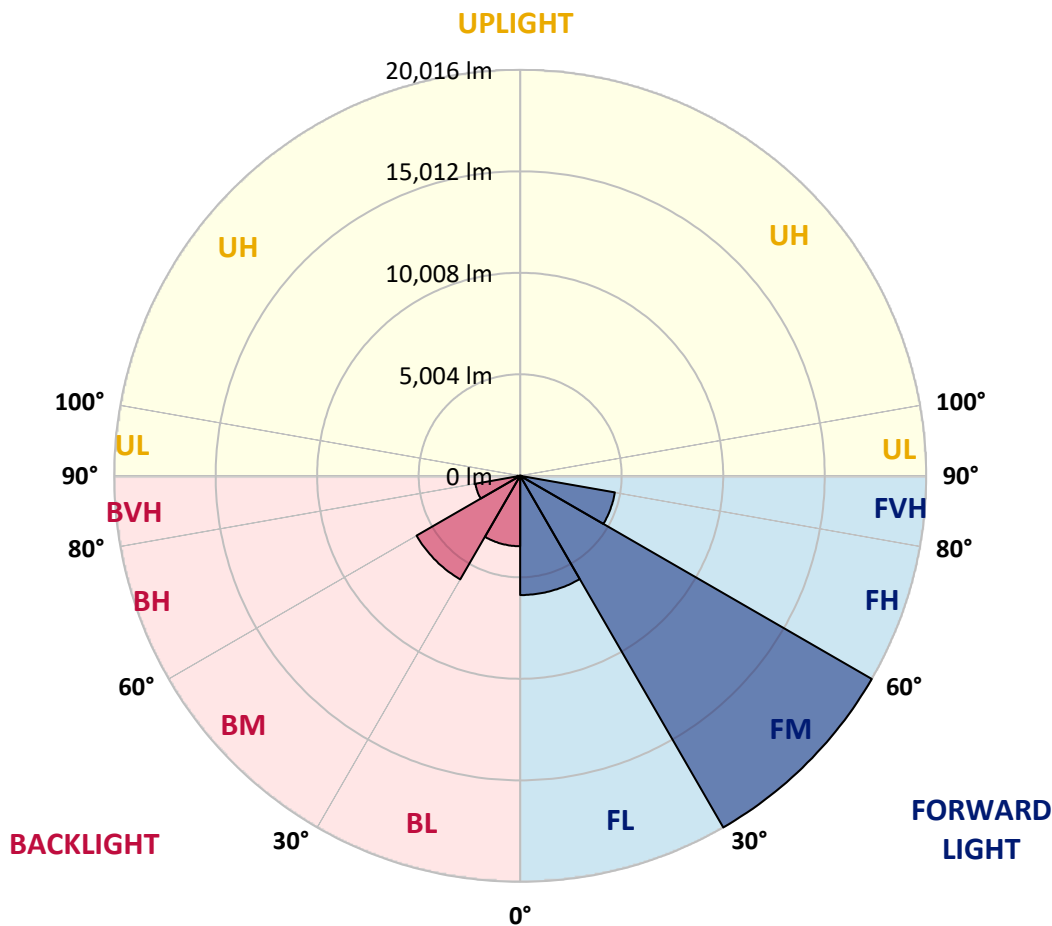
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5877.6	13.8			
FM (30°-60°)	20016.2	47.1			
FH (60°-80°)	4740.2	11.2			G2/5000
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	3472.1	8.2	B4/5000		
BM (30°-60°)	5896.2	13.9	B4/8500		
BH (60°-80°)	2244.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	135.2	0.3			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°	54°	55°	65°	75°	85°
0°	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3
2.5°	16974.7	16909.2	16920.1	17007.4	16898.3	16854.6	16854.6	16641.7	16658.1	16510.7	16472.5
5°	16581.7	16428.9	16532.6	16663.6	16685.4	16729.1	16800.0	16745.4	16592.6	16434.3	16177.8
7.5°	15555.6	15692.0	15730.2	15823.0	16019.5	16199.6	16423.4	16270.6	16265.1	16106.8	15954.0
10°	14655.0	14573.1	14780.5	14917.0	15244.5	15544.6	15888.5	15872.1	15954.0	15773.9	15511.9
12.5°	13759.9	13694.4	13792.6	14103.7	14562.2	14998.8	15408.2	15255.4	15692.0	15659.3	15097.1
15°	12810.1	12859.3	13001.2	13290.5	13890.8	14414.8	14933.3	14938.8	15326.3	15457.3	14704.1
17.5°	12144.3	12089.7	12269.8	12701.0	13235.9	13863.6	14453.0	14573.1	15168.0	15244.5	14584.0
20°	11647.6	11724.0	11958.7	12177.0	12793.8	13552.4	14218.3	14262.0	15135.3	15342.7	14393.0
22.5°	11527.5	11483.8	11560.2	11915.0	12422.6	13246.8	14092.8	14256.5	15129.8	15309.9	14032.8
25°	11402.0	11543.9	11538.4	11893.2	12264.3	13001.2	14196.5	14376.6	15419.1	15479.1	14081.9
27.5°	11685.8	11669.4	11822.2	11849.5	12308.0	13066.7	14414.8	14551.3	15899.4	15850.3	14120.1
30°	11969.6	11887.7	11980.5	12302.5	12515.4	13443.3	15015.2	15004.3	16521.6	16488.9	14240.2
32.5°	12318.9	12280.7	12340.7	12624.6	12984.8	13945.4	15522.8	15844.8	17154.8	17362.2	14655.0
35°	12384.4	12542.7	12684.6	13066.7	13579.7	14758.7	16478.0	16745.4	17886.2	18535.7	15446.4
37.5°	12799.2	12859.3	13192.2	13869.0	14338.4	15844.8	17083.8	17253.0	18552.1	19288.9	16281.5
40°	13241.3	13312.3	13814.4	14524.0	15168.0	16554.4	17651.5	17706.1	18764.9	19867.5	16827.3
42.5°	13841.7	13907.2	14403.9	15293.6	16156.0	17160.2	18153.6	18213.7	18748.5	20533.3	17695.1
45°	14463.9	14622.2	15206.2	16216.0	16991.0	17869.8	18268.2	18513.8	18901.4	21128.3	18399.2
47.5°	15337.2	15484.6	15964.9	16952.8	17858.9	18492.0	18797.7	19037.8	19267.1	21646.8	18852.3
50°	16265.1	16292.4	16876.4	17771.5	18437.4	19196.1	19785.6	19867.5	19747.4	22247.2	19621.8
52.5°	16947.4	17034.7	17487.7	18361.0	19354.4	20287.7	21095.5	21182.9	20948.2	22471.0	19883.8
55°	15817.6	15768.4	16505.3	17667.8	19971.2	21914.2	23087.7	23153.2	21821.5	23164.1	20740.7
57.5°	12226.1	12460.8	13088.5	14491.2	17744.3	22634.7	24626.9	24392.2	22869.4	23513.5	21286.6
60°	8885.8	8831.2	9251.5	10190.3	13372.3	19507.2	23284.2	23524.4	22012.5	21193.8	17553.2
62.5°	7237.4	7161.0	7193.8	7226.5	8629.2	12946.6	17236.7	17231.2	16952.8	15233.5	11838.6
65°	5785.6	5965.7	5982.1	6227.7	6407.8	7734.1	9988.3	10523.2	9164.1	7515.8	5452.6
67.5°	4361.0	4295.5	4513.8	5387.1	5725.5	5583.6	5452.6	5512.7	3918.9	2827.3	2663.5
70°	2570.8	2543.5	2805.5	3755.2	4715.8	4437.4	4109.9	4115.4	2690.8	1975.8	2199.6
72.5°	1408.2	1402.7	1457.3	1904.9	2679.9	2783.6	2467.1	2543.5	1604.7	1599.2	1719.3
75°	786.0	769.6	753.2	840.5	966.1	1020.7	1042.5	1053.4	1102.5	1233.5	1282.7
77.5°	289.3	278.4	278.4	322.0	409.4	513.1	649.5	660.4	780.5	895.1	944.2
80°	98.2	109.2	147.4	201.9	272.9	365.7	442.1	453.0	551.3	627.7	644.1
82.5°	60.0	65.5	98.2	141.9	196.5	256.5	327.5	332.9	409.4	458.5	480.3
85°	27.3	32.7	54.6	87.3	125.5	169.2	174.7	174.7	169.2	174.7	163.7
87.5°	0.0	0.0	10.9	10.9	10.9	16.4	21.8	16.4	27.3	32.7	32.7
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°	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3	16505.3
2.5°	16357.9	16297.9	16112.3	15948.5	15899.4	15681.1	15359.1	15397.3	15162.6	15271.7	15157.1
5°	16134.1	15932.2	15457.3	15255.4	14725.9	14485.8	14322.0	13912.7	13721.6	13683.4	13519.7
7.5°	15561.0	15435.5	14840.6	14294.7	13732.6	13252.2	12635.5	12215.2	11915.0	11833.1	11593.0
10°	15108.0	14829.6	14005.5	13175.8	12373.5	11538.4	10736.1	10108.4	9802.7	9448.0	9327.9
12.5°	14660.4	14240.2	13126.7	12062.4	11025.3	9971.9	9000.4	8236.3	7570.4	7412.1	7357.5
15°	14382.1	13650.7	12340.7	11058.1	9584.4	8209.0	7237.4	6735.3	6325.9	6156.7	6276.8
17.5°	14016.4	13164.9	11587.5	9879.1	8258.1	6991.8	6178.6	5867.4	5720.1	5736.5	5687.3
20°	13557.9	12706.4	10599.6	8809.4	7073.7	6063.9	5600.0	5485.4	5507.2	5545.4	5529.0
22.5°	13230.4	12149.7	9884.6	7717.7	6113.1	5550.9	5359.8	5278.0	5348.9	5381.7	5354.4
25°	12979.3	11674.9	9016.8	6751.7	5556.3	5261.6	5174.3	5168.8	5278.0	5321.6	5294.3
27.5°	12750.1	11232.8	8154.4	6014.8	5185.2	5037.8	5010.5	5076.0	5147.0	5190.6	5228.9
30°	12613.7	10894.4	7346.6	5398.1	4999.6	4928.7	4879.5	4939.6	4977.8	5021.4	4999.6
32.5°	12744.6	10654.2	6566.1	5048.7	4846.8	4775.8	4841.3	4803.1	4868.6	4906.8	4846.8
35°	13154.0	10441.3	6009.4	4863.2	4672.1	4699.4	4710.3	4694.0	4721.2	4688.5	4759.5
37.5°	13557.9	10364.9	5496.3	4704.9	4590.3	4590.3	4579.3	4546.6	4601.2	4590.3	4623.0
40°	14071.0	10414.0	5059.7	4535.7	4513.8	4502.9	4459.3	4453.8	4432.0	4437.4	4448.3
42.5°	14518.5	10523.2	4808.6	4426.5	4442.9	4464.7	4382.8	4317.4	4344.6	4290.1	4290.1
45°	14993.4	10621.4	4584.8	4350.1	4333.7	4328.3	4262.8	4224.6	4202.7	4208.2	4257.3
47.5°	15741.1	10763.4	4415.6	4246.4	4257.3	4175.4	4159.1	4109.9	4131.8	4164.5	4170.0
50°	16270.6	11063.6	4284.6	4126.3	4164.5	4109.9	4011.7	3989.9	3989.9	4044.4	4033.5
52.5°	16641.7	11483.8	4159.1	3995.3	4011.7	3968.0	3935.3	3886.2	3853.4	3929.8	3968.0
55°	17777.0	12182.5	4126.3	3886.2	3880.7	3837.0	3777.0	3727.9	3711.5	3722.4	3798.8
57.5°	17667.8	11964.1	4022.6	3695.1	3684.2	3624.2	3564.1	3547.8	3542.3	3553.2	3575.1
60°	14343.9	8836.7	3591.4	3476.8	3460.4	3449.5	3389.5	3324.0	3291.2	3324.0	3296.7
62.5°	9491.6	5916.6	3165.7	3214.8	3225.7	3198.4	3100.2	3034.7	3045.6	3083.8	3023.8
65°	4661.2	3476.8	2871.0	3002.0	3012.9	2936.5	2843.7	2767.3	2729.0	2761.8	2734.5
67.5°	2663.5	2658.1	2630.8	2767.3	2761.8	2685.4	2538.0	2472.5	2407.0	2417.9	2401.6
70°	2259.7	2303.3	2357.9	2439.8	2434.3	2347.0	2172.3	2123.2	2030.4	2019.5	1992.2
72.5°	1779.3	1855.8	1975.8	2035.9	1986.7	1877.6	1763.0	1681.1	1599.2	1550.1	1566.5
75°	1320.9	1430.0	1495.5	1533.7	1457.3	1397.3	1304.5	1206.2	1108.0	1064.3	1048.0
77.5°	960.6	993.4	1053.4	1080.7	1031.6	971.5	917.0	818.7	725.9	665.9	649.5
80°	671.3	693.2	736.8	736.8	736.8	709.6	638.6	540.4	480.3	425.7	414.8
82.5°	469.4	491.2	534.9	513.1	507.6	474.9	431.2	354.8	289.3	251.1	240.2
85°	163.7	180.1	218.3	262.0	278.4	272.9	245.6	196.5	152.8	125.5	114.6
87.5°	38.2	38.2	43.7	38.2	38.2	43.7	38.2	38.2	38.2	27.3	21.8
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)