

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: P459306

Luminaire Tested: **GALN-SA7D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41288 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

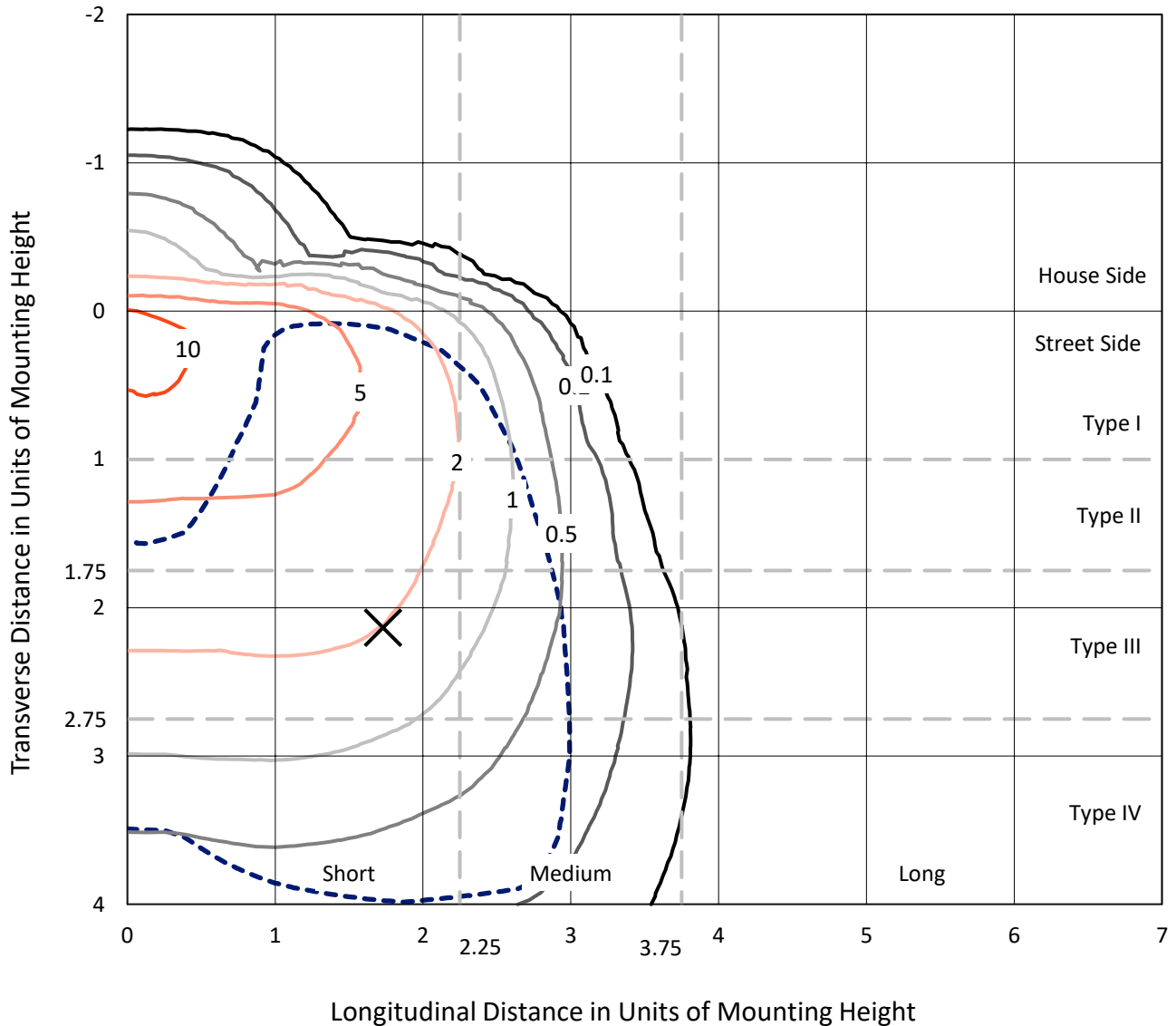
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

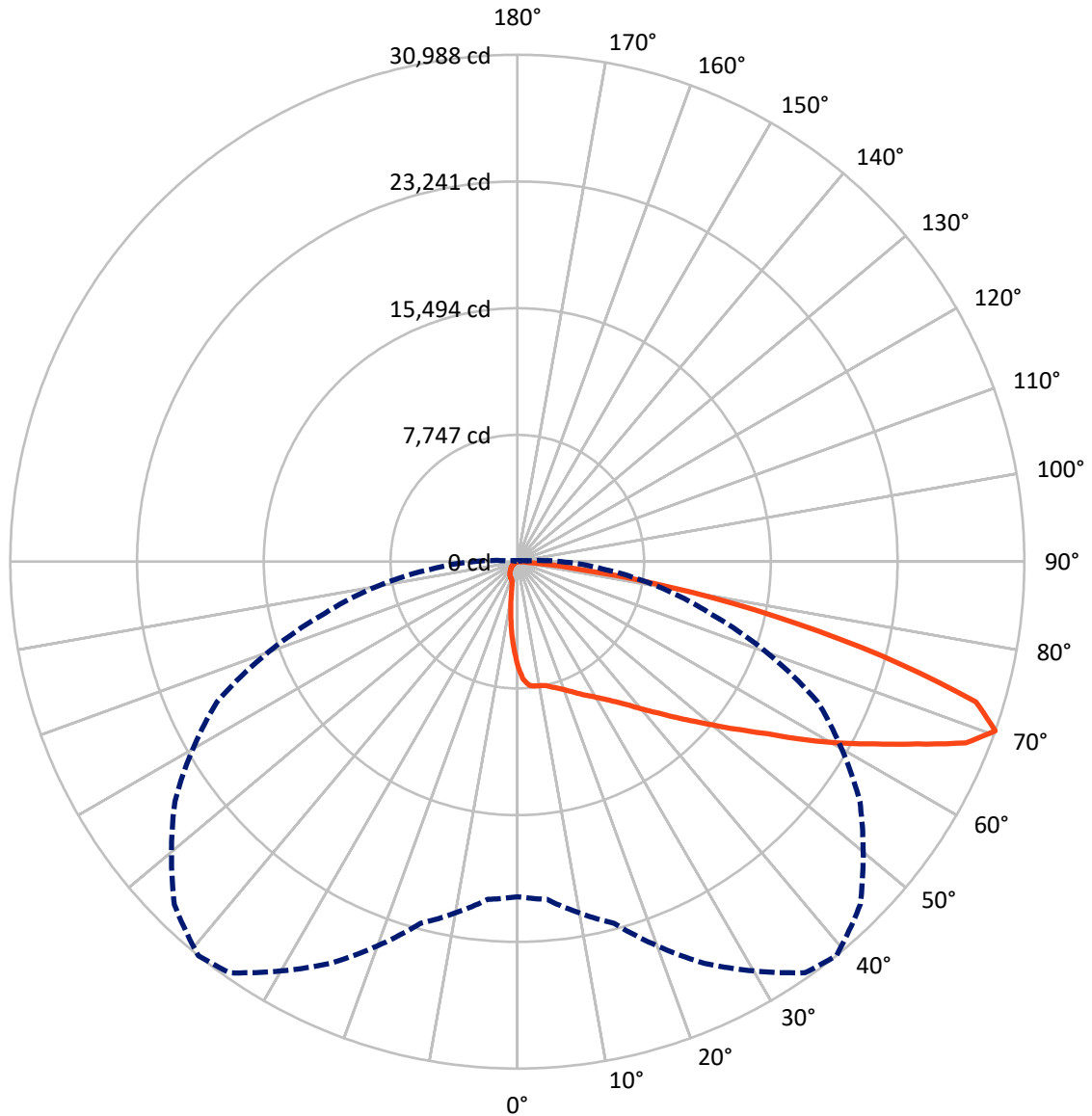
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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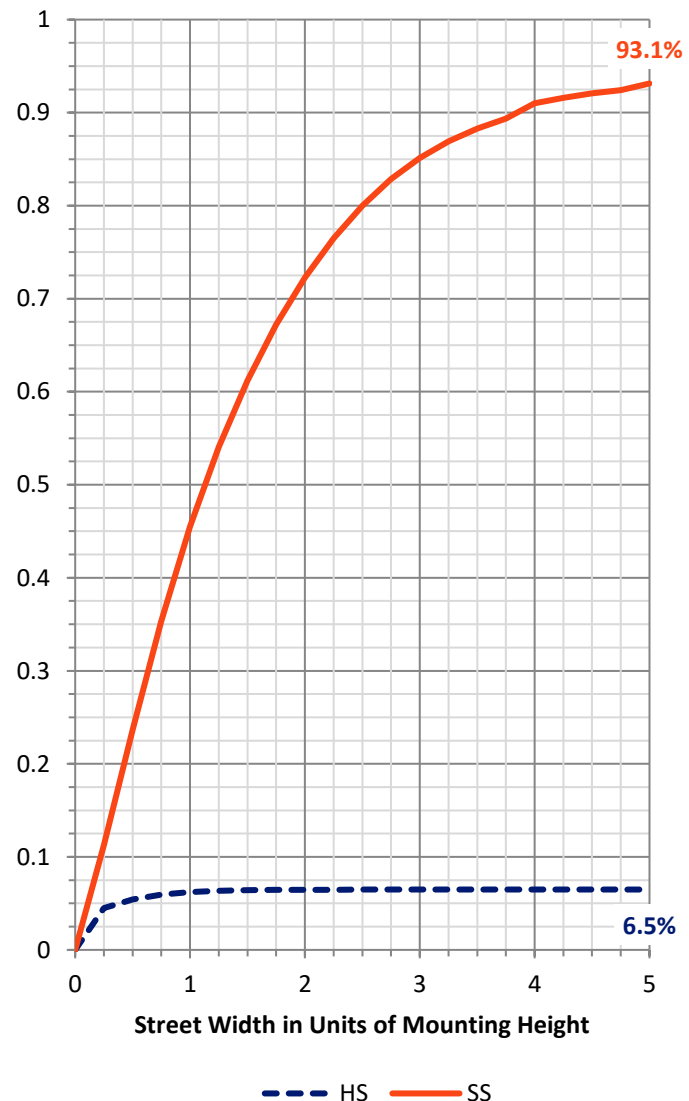
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.2	0.0	2692.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	38595.8	0.0	38595.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	41288.0	0.0	41288.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.5	1.3
10°-20°	1428.0	3.5
20°-30°	2392.2	5.8
30°-40°	3710.0	9.0
40°-50°	5879.3	14.2
50°-60°	8618.2	20.9
60°-70°	11046.4	26.8
70°-80°	6941.2	16.8
80°-90°	723.1	1.8
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°	41288.0	100.0
0°-180°	41288.0	100.0



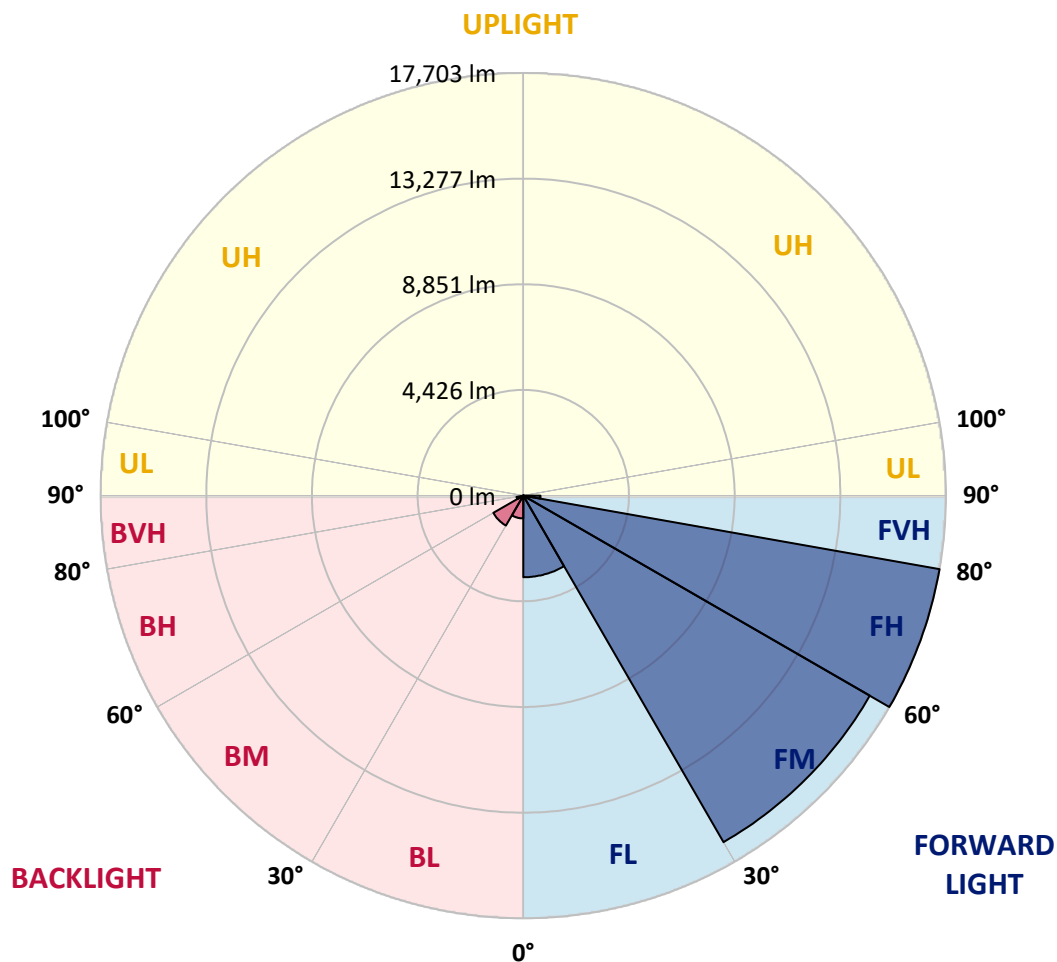
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3416.4	8.3			
FM (30°-60°)	16758.7	40.6			
FH (60°-80°)	17702.9	42.9			G5
FVH (80°-90°)	717.8	1.7			G4/750
BL (0°-30°)	953.3	2.3	B2/1000		
BM (30°-60°)	1448.8	3.5	B2/2500		
BH (60°-80°)	284.7	0.7	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3
2.5°	7443.9	7419.0	7385.7	7346.8	7235.8	7216.4	7149.8	7008.3	6839.1	6700.4	6508.9
5°	7796.3	7810.2	7785.2	7715.8	7635.4	7588.2	7505.0	7285.8	7066.6	6786.4	6472.9
7.5°	7876.8	7904.5	7874.0	7807.4	7729.7	7679.8	7613.2	7424.5	7169.3	6850.2	6420.1
10°	7868.4	7901.7	7882.3	7821.3	7757.4	7710.3	7638.1	7488.3	7283.0	6947.3	6436.8
12.5°	7854.6	7898.9	7896.2	7865.7	7812.9	7776.9	7732.5	7599.3	7407.9	7088.8	6528.4
15°	7815.7	7871.2	7921.1	7946.1	7948.9	7948.9	7893.4	7751.9	7568.8	7274.7	6647.7
17.5°	7832.4	7896.2	8021.0	8093.2	8143.1	8137.6	8079.3	7926.7	7724.2	7466.1	6772.5
20°	7935.0	8021.0	8195.8	8340.1	8390.0	8373.4	8295.7	8118.1	7887.8	7629.8	6894.6
22.5°	8187.5	8265.2	8484.4	8653.6	8689.7	8645.3	8534.3	8292.9	8084.8	7807.4	7041.6
25°	8564.8	8656.4	8858.9	8986.5	8986.5	8961.6	8806.2	8523.2	8306.8	8054.3	7233.1
27.5°	9022.6	9100.3	9300.1	9413.8	9347.2	9275.1	9119.7	8778.5	8570.4	8365.1	7463.4
30°	9485.9	9535.9	9746.8	9796.7	9727.3	9635.8	9469.3	9128.0	8944.9	8786.8	7796.3
32.5°	9924.3	10032.5	10207.3	10196.2	10101.9	10057.5	9904.9	9541.4	9438.8	9422.1	8262.4
35°	10362.7	10445.9	10601.3	10640.1	10556.9	10548.6	10437.6	10168.5	10171.2	10279.5	8989.3
37.5°	10740.0	10814.9	10998.0	11084.1	11100.7	11142.3	11097.9	10920.4	11172.8	11469.7	9952.1
40°	11056.3	11161.7	11394.8	11544.6	11716.6	11869.2	11877.6	11916.4	12424.1	12934.6	11208.9
42.5°	11303.2	11450.3	11788.8	12066.2	12460.2	12654.4	12809.8	13023.4	13878.0	14640.9	12690.5
45°	11625.1	11794.3	12216.0	12651.6	13267.6	13586.6	13803.0	14374.6	15587.0	16627.5	14210.9
47.5°	12157.8	12246.6	12676.6	13312.0	14122.1	14577.1	14998.8	15864.5	17421.0	18353.2	15476.1
50°	12843.1	12901.3	13225.9	14108.2	15157.0	15756.3	16524.8	17543.0	19324.3	19784.8	16191.9
52.5°	13600.5	13619.9	13864.1	14985.0	16316.7	17071.4	17931.5	19188.3	20875.2	20805.8	16666.3
55°	14480.0	14452.3	14660.4	15936.6	17690.1	18553.0	19554.5	20872.4	22220.8	21530.0	16938.2
57.5°	15487.2	15412.2	15614.8	17199.0	19449.1	20481.2	21499.5	22326.2	23264.0	22137.6	17068.6
60°	16541.5	16391.6	16633.0	18616.8	21521.6	22501.0	23347.3	23569.2	24362.7	22620.3	16843.9
62.5°	17382.1	17384.9	17834.4	20126.1	23652.4	24509.8	24959.2	25159.0	25308.8	22514.9	15661.9
65°	18694.5	18738.8	19457.4	22220.8	26119.0	26862.5	27170.5	26521.3	25350.4	21205.4	13886.3
67.5°	20048.4	20189.9	21505.0	25106.3	28968.4	29567.6	29170.9	26784.8	24218.4	18217.2	10529.2
70°	20489.5	20722.6	22889.5	27092.8	30677.4	30988.2	29645.3	25555.7	20245.4	12180.0	5299.3
72.5°	18774.9	19152.2	22093.2	26368.7	29587.1	29317.9	26524.0	21432.9	12870.8	4625.1	1617.5
75°	13239.8	13406.3	18361.5	21874.0	23796.7	23033.7	20176.0	13816.9	5293.7	1298.5	554.9
77.5°	6836.3	6755.9	10920.4	14513.3	16971.5	16180.8	13212.1	7152.6	2005.9	541.0	344.0
80°	3534.7	3593.0	4724.9	7604.9	10359.9	9533.1	7044.4	3315.5	1068.2	299.6	263.6
82.5°	1981.0	1858.9	2716.2	3321.1	4844.2	3798.3	2702.3	2347.2	466.1	180.3	249.7
85°	360.7	377.3	1489.9	1795.1	1681.3	1068.2	871.2	1567.6	135.9	99.9	174.8
87.5°	5.5	5.5	288.5	516.1	327.4	149.8	274.7	224.7	27.7	38.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3	6442.3
2.5°	6411.8	6306.4	6109.4	5915.2	5668.3	5465.7	5329.8	5188.3	5044.0	5055.1	5088.4
5°	6300.8	6117.7	5729.3	5318.7	4924.7	4569.6	4220.0	3906.5	3778.8	3662.3	3667.9
7.5°	6189.9	5931.8	5363.1	4719.4	4122.9	3518.0	3079.7	2719.0	2527.6	2383.3	2341.7
10°	6139.9	5798.7	5027.4	4142.3	3296.1	2635.8	2072.5	1778.4	1550.9	1478.8	1498.2
12.5°	6162.1	5732.1	4724.9	3620.7	2613.6	1836.7	1442.7	1292.9	1243.0	1234.6	1229.1
15°	6203.7	5684.9	4428.1	3043.6	1919.9	1365.0	1212.4	1184.7	1179.2	1173.6	1176.4
17.5°	6259.2	5643.3	4111.8	2502.6	1473.2	1193.0	1148.6	1134.8	1132.0	1132.0	1132.0
20°	6314.7	5596.1	3759.4	2019.8	1229.1	1126.4	1098.7	1090.4	1087.6	1087.6	1084.8
22.5°	6378.5	5554.5	3401.5	1587.0	1132.0	1079.3	1054.3	1048.8	1046.0	1043.2	1043.2
25°	6470.1	5501.8	3021.4	1298.5	1070.9	1034.9	1009.9	1004.4	1001.6	990.5	993.3
27.5°	6592.2	5463.0	2630.2	1120.9	1015.5	979.4	962.7	954.4	948.9	940.5	943.3
30°	6758.6	5429.7	2214.0	1023.8	951.6	921.1	904.5	898.9	893.4	885.1	885.1
32.5°	7047.2	5443.5	1775.7	946.1	893.4	857.3	840.7	835.1	829.6	821.2	821.2
35°	7480.0	5524.0	1420.5	879.5	824.0	788.0	771.3	771.3	763.0	751.9	749.1
37.5°	8187.5	5729.3	1140.3	815.7	757.4	724.1	704.7	699.2	690.8	674.2	671.4
40°	9022.6	6048.4	960.0	751.9	696.4	663.1	646.5	629.8	607.6	591.0	588.2
42.5°	10071.4	6375.8	832.3	688.1	638.1	607.6	588.2	560.4	527.2	505.0	502.2
45°	11164.5	6675.4	746.3	629.8	582.6	557.7	535.5	491.1	449.5	421.7	418.9
47.5°	11980.2	6730.9	677.0	574.3	535.5	510.5	480.0	424.5	369.0	344.0	335.7
50°	12365.9	6461.8	604.8	518.8	488.3	460.6	421.7	357.9	296.9	266.4	260.8
52.5°	12501.8	5995.7	546.6	468.9	441.1	407.8	360.7	288.5	233.1	202.5	199.8
55°	12446.3	5407.5	493.9	421.7	385.7	346.8	299.6	230.3	172.0	147.0	141.5
57.5°	12155.0	4658.4	441.1	374.6	330.2	291.3	238.6	172.0	116.5	94.3	91.6
60°	11369.8	3637.3	388.4	321.8	280.2	238.6	188.7	122.1	72.1	52.7	52.7
62.5°	10043.6	2699.6	338.5	269.1	235.8	191.4	133.2	77.7	38.8	27.7	25.0
65°	8392.8	1992.1	283.0	227.5	197.0	149.8	94.3	47.2	19.4	8.3	5.5
67.5°	5856.9	1229.1	235.8	185.9	160.9	108.2	58.3	19.4	8.3	0.0	0.0
70°	2660.7	585.4	180.3	141.5	122.1	77.7	30.5	11.1	5.5	0.0	0.0
72.5°	826.8	308.0	127.6	102.7	83.2	49.9	16.6	8.3	5.5	0.0	0.0
75°	382.9	197.0	80.5	55.5	47.2	25.0	11.1	5.5	2.8	0.0	0.0
77.5°	285.8	152.6	47.2	30.5	25.0	16.6	8.3	5.5	2.8	0.0	0.0
80°	249.7	77.7	27.7	19.4	13.9	11.1	5.5	2.8	0.0	0.0	0.0
82.5°	224.7	38.8	16.6	11.1	8.3	5.5	2.8	2.8	0.0	0.0	0.0
85°	122.1	22.2	11.1	8.3	5.5	2.8	2.8	0.0	0.0	0.0	0.0
87.5°	22.2	11.1	8.3	5.5	5.5	2.8	2.8	2.8	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)