

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: P454650

Luminaire Tested: **GALN-SA5D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27623 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

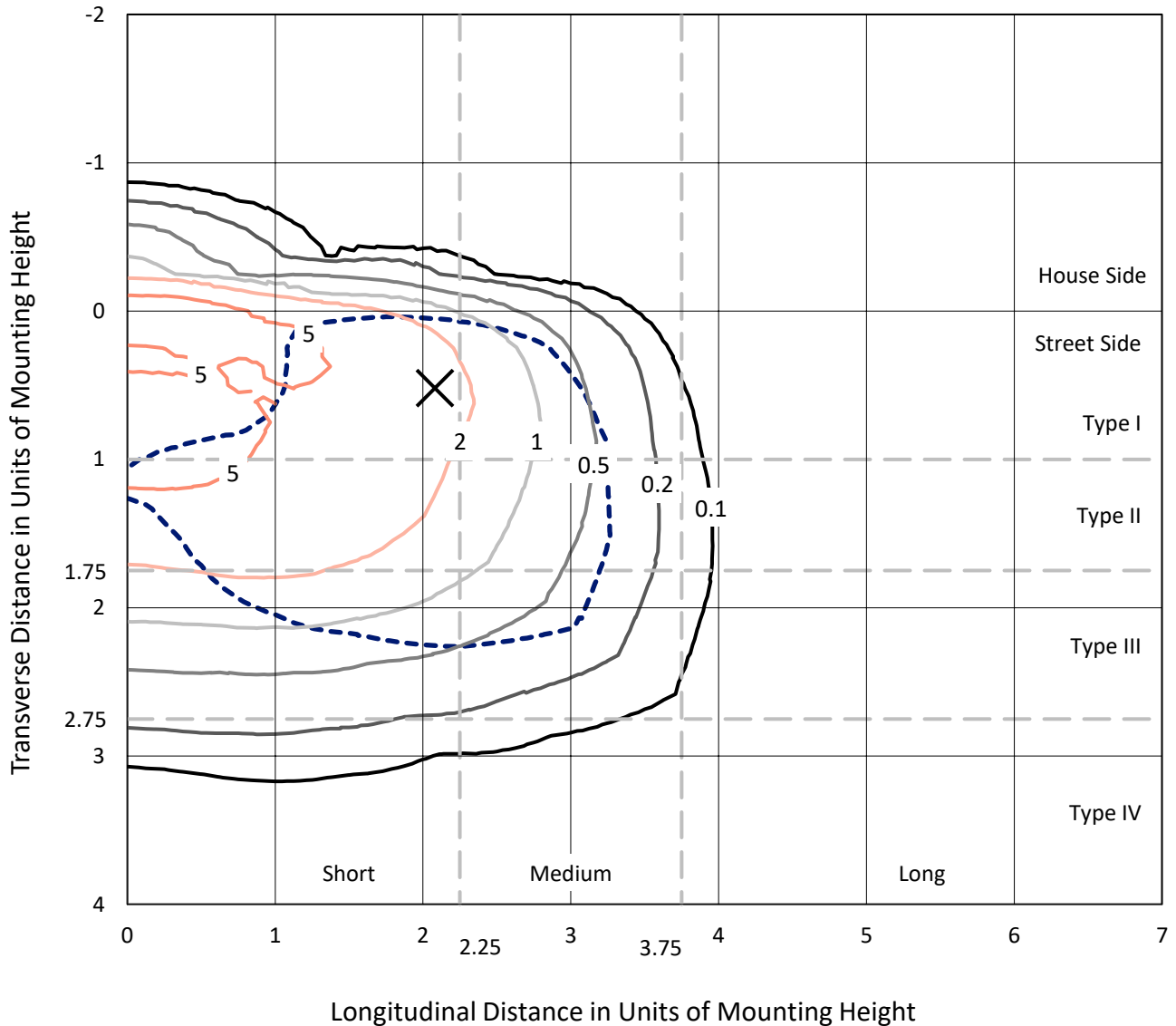
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

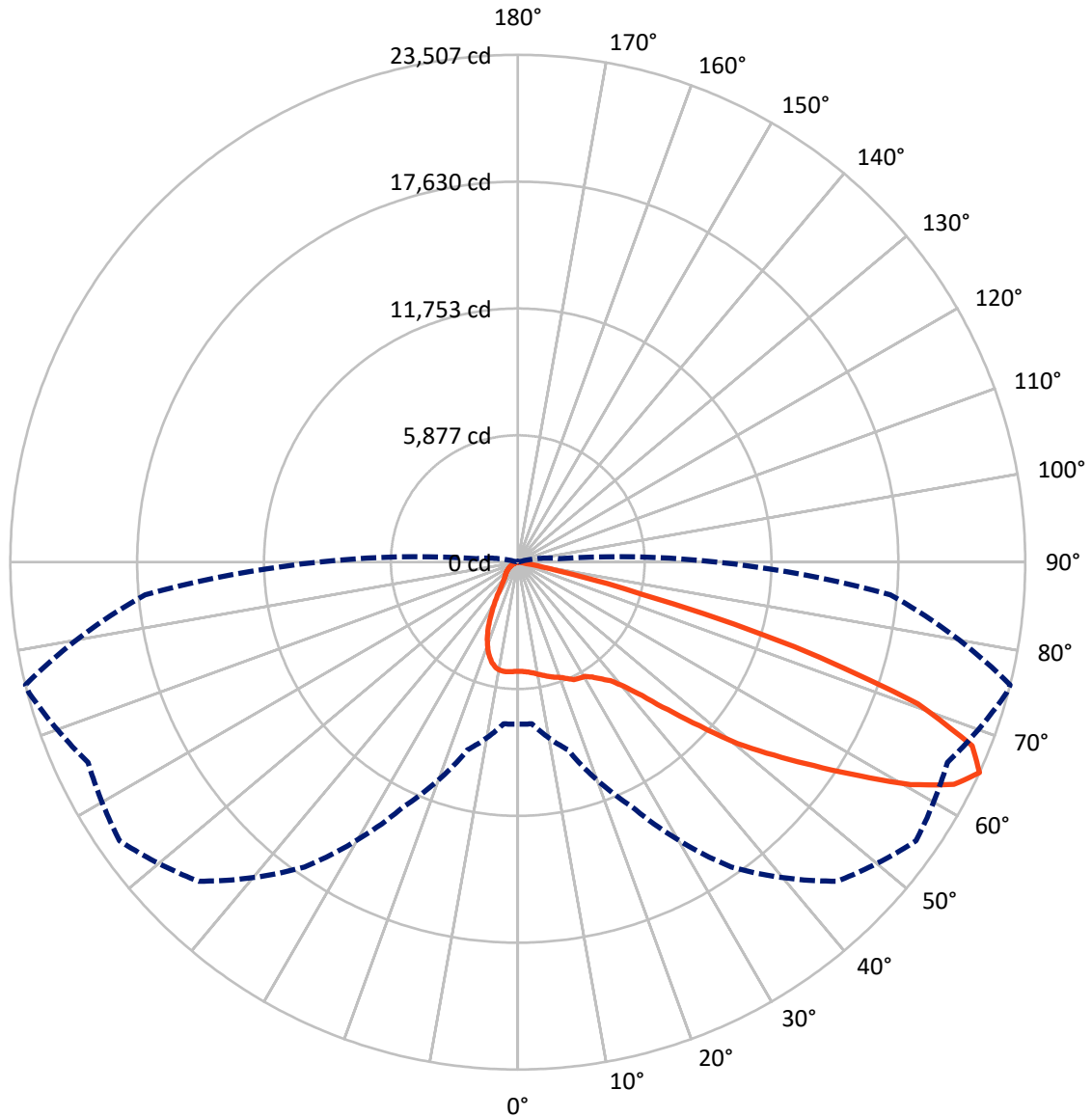
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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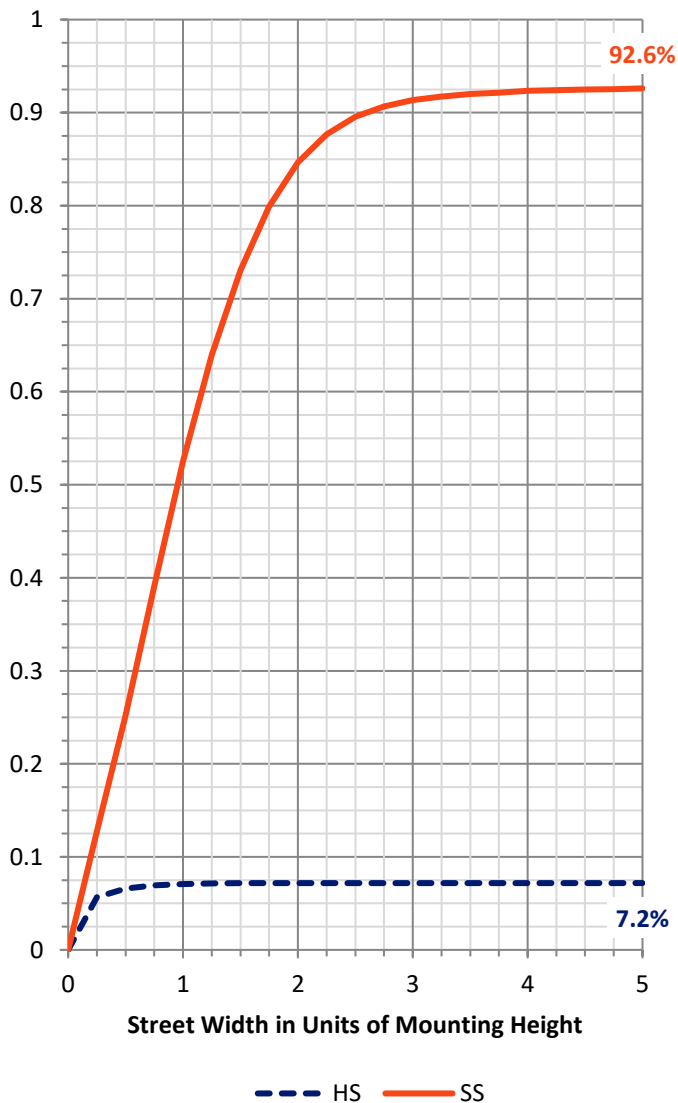
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1995.0	0.0	1995.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25628.1	0.0	25628.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	27623.0	0.0	27623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	1.5
10°-20°	926.8	3.4
20°-30°	1493.5	5.4
30°-40°	2596.8	9.4
40°-50°	4291.1	15.5
50°-60°	6628.9	24.0
60°-70°	8094.8	29.3
70°-80°	3072.2	11.1
80°-90°	102.5	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°	27623.0	100.0
0°-180°	27623.0	100.0

Coefficient of Utilization



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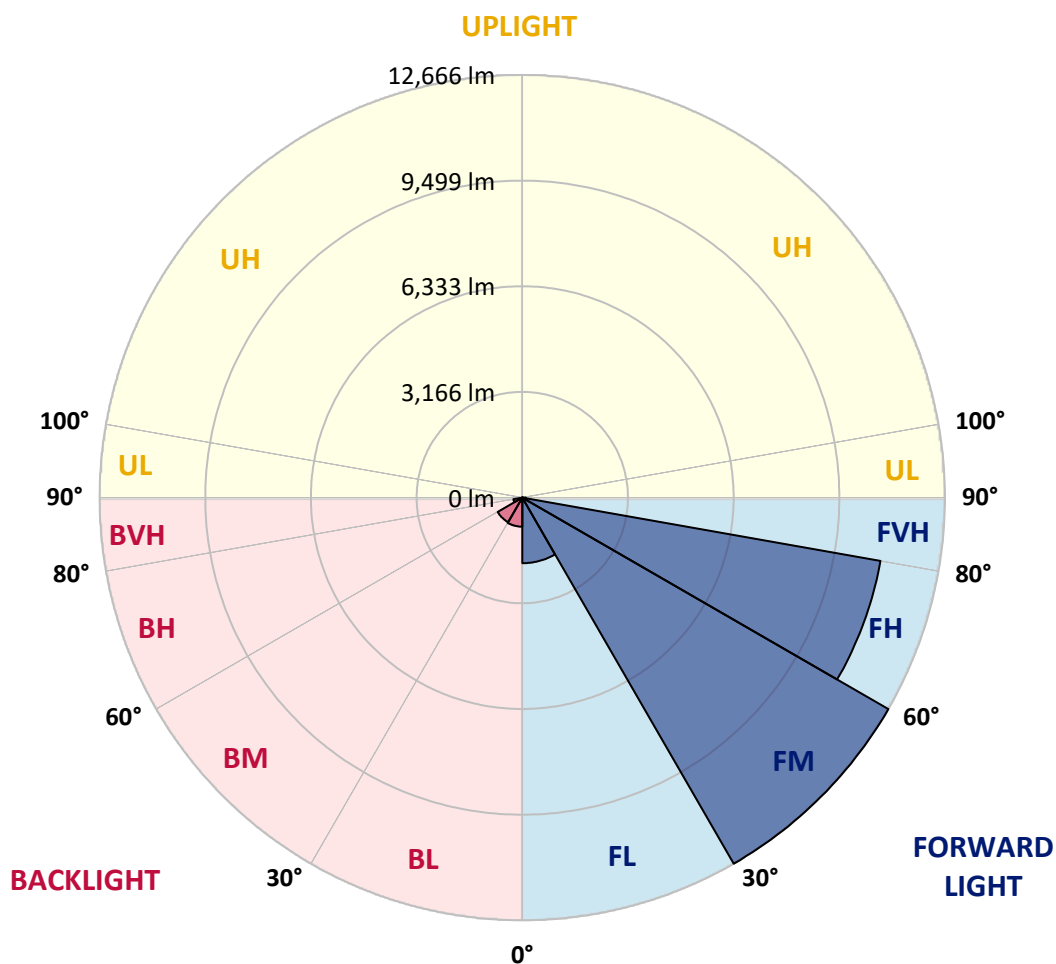
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.1	7.1			
FM (30°-60°)	12665.6	45.9			
FH (60°-80°)	10896.3	39.4			G4/12000
FVH (80°-90°)	101.1	0.4			G2/225
BL (0°-30°)	871.5	3.2	B2/1000		
BM (30°-60°)	851.3	3.1	B1/1000		
BH (60°-80°)	270.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1
2.5°	4828.8	4830.8	4842.5	4871.8	4916.6	4953.7	4984.9	5035.6	5070.7	5074.6	5086.3
5°	4495.4	4472.0	4495.4	4571.4	4639.7	4743.0	4869.8	4996.6	5109.7	5117.5	5172.1
7.5°	4120.9	4140.4	4177.5	4255.5	4384.2	4542.2	4725.5	4951.7	5166.2	5185.7	5293.0
10°	3740.6	3783.5	3844.0	3962.9	4142.4	4347.1	4596.8	4920.5	5256.0	5283.3	5468.5
12.5°	3389.6	3409.1	3483.2	3643.1	3865.4	4154.1	4499.3	4903.0	5355.4	5388.6	5655.8
15°	3120.4	3145.8	3210.1	3354.5	3602.1	3972.7	4419.3	4897.1	5452.9	5499.7	5843.0
17.5°	3069.7	3085.3	3112.6	3210.1	3426.6	3828.4	4347.1	4895.2	5546.5	5603.1	6016.6
20°	3278.4	3264.7	3237.4	3227.7	3346.6	3717.2	4294.5	4910.8	5636.3	5700.6	6199.9
22.5°	3801.1	3818.6	3658.7	3469.5	3430.5	3699.6	4286.7	4984.9	5778.6	5854.7	6404.7
25°	4910.8	4776.2	4526.6	4074.1	3732.8	3806.9	4374.4	5160.4	5944.4	6028.3	6589.9
27.5°	6137.5	6096.5	5708.4	4963.4	4327.6	4033.1	4530.5	5295.0	5999.0	6084.8	6695.2
30°	7342.7	7391.5	6946.8	6123.8	5191.6	4452.4	4676.7	5345.7	6047.8	6137.5	6829.8
32.5°	8460.2	8518.7	8128.7	7313.5	6209.6	5177.9	4928.3	5542.6	6252.5	6344.2	7054.1
35°	9339.8	9347.6	9053.1	8403.7	7321.3	6059.5	5472.4	5887.8	6529.5	6636.7	7292.0
37.5°	10147.2	10135.5	9790.3	9230.6	8247.7	6935.1	6157.0	6285.7	6845.4	6956.6	7635.3
40°	10745.9	10753.7	10642.6	10116.0	9111.6	7744.5	6699.1	6658.2	7375.9	7549.5	8134.5
42.5°	11145.7	11217.9	11272.5	11005.3	10197.9	8741.1	7531.9	7455.9	8296.4	8440.7	8840.5
45°	11469.5	11598.2	11871.2	11857.6	11241.3	9963.9	8674.8	8518.7	9601.1	9755.2	9739.6
47.5°	11705.5	11836.1	12288.6	12561.6	12222.3	11149.6	10112.1	9977.5	11159.4	11327.1	10732.3
50°	11826.4	11982.4	12559.7	13088.2	12988.7	12292.5	11750.3	11758.1	13041.4	13203.3	11882.9
52.5°	11543.6	11746.4	12704.0	13655.7	13848.8	13386.6	13285.2	13542.6	14716.7	14855.1	12922.4
55°	10640.6	10896.1	12507.0	14139.4	14845.4	14677.7	15028.7	15420.7	16548.0	16637.7	13989.2
57.5°	10069.2	10340.3	11925.9	14550.9	16042.9	16300.3	16856.1	17142.8	18437.8	18666.0	15214.0
60°	9587.5	9800.1	11448.0	14638.7	17259.8	18285.7	18825.9	19122.3	20770.3	20918.5	16561.6
62.5°	8785.9	9029.7	10640.6	14026.3	17872.2	19875.1	20994.6	20862.0	22574.3	22677.6	17388.5
65°	7496.8	7518.3	9002.4	12487.5	17240.3	20906.8	22517.7	21961.9	23436.3	23506.5	17324.2
67.5°	5595.3	5802.0	6925.4	9815.7	14562.6	20025.3	23011.1	21991.2	22892.2	22697.1	15949.2
70°	3604.1	3762.1	4694.3	6806.4	10500.2	16711.8	21374.9	20483.6	20091.6	19658.6	13055.1
72.5°	1663.6	1866.4	2788.9	3888.8	6227.2	11904.4	17351.5	16641.6	14461.2	13392.4	8298.4
75°	725.5	776.2	1376.9	2051.7	2919.5	6295.4	11440.2	10330.5	6531.4	5965.9	3321.3
77.5°	442.7	475.9	721.6	1099.9	1146.8	2398.8	6162.8	4507.1	2018.5	1780.6	901.0
80°	300.3	337.4	524.6	575.3	392.0	668.9	2313.0	1203.3	407.6	390.1	193.1
82.5°	146.3	185.3	388.1	321.8	169.7	214.5	672.8	257.4	119.0	111.2	68.3
85°	21.5	37.1	218.4	210.6	76.1	50.7	119.0	64.4	41.0	39.0	31.2
87.5°	0.0	0.0	74.1	33.2	7.8	7.8	13.7	13.7	15.6	13.7	15.6
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°	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1	5053.1
2.5°	5092.1	5101.9	5064.8	5012.2	4955.6	4899.1	4819.1	4746.9	4704.0	4729.4	4667.0
5°	5183.8	5176.0	5078.5	4918.6	4706.0	4450.5	4197.0	3980.5	3910.3	3805.0	3793.3
7.5°	5310.6	5289.1	5082.4	4715.7	4236.0	3756.2	3288.1	2978.0	2800.6	2650.4	2654.3
10°	5488.0	5425.6	5037.5	4358.8	3569.0	2845.4	2248.7	1839.1	1661.6	1605.1	1560.2
12.5°	5671.4	5550.4	4912.7	3877.1	2779.1	1944.4	1367.1	1117.5	1008.3	973.2	969.3
15°	5835.2	5644.1	4694.3	3297.9	2020.5	1242.3	932.2	850.3	836.7	838.6	836.7
17.5°	5997.1	5718.2	4392.0	2683.6	1373.0	891.3	801.6	782.1	787.9	795.7	793.8
20°	6131.6	5733.8	4005.8	2047.8	971.2	782.1	752.8	748.9	754.8	760.6	760.6
22.5°	6277.9	5745.5	3547.5	1417.8	793.8	727.4	711.8	711.8	719.6	727.4	729.4
25°	6387.1	5681.1	2999.5	1018.0	700.1	674.8	667.0	668.9	676.7	680.6	678.7
27.5°	6404.7	5499.7	2418.3	780.1	635.8	610.4	602.6	610.4	600.7	606.5	602.6
30°	6420.3	5269.6	1829.3	657.2	577.3	538.3	526.6	514.9	507.1	497.3	495.4
32.5°	6469.0	4998.5	1335.9	590.9	522.7	479.8	452.5	419.3	394.0	386.2	384.2
35°	6490.5	4672.8	981.0	538.3	473.9	427.1	378.4	331.5	294.5	280.8	290.6
37.5°	6572.4	4356.9	760.6	499.3	431.0	372.5	310.1	251.6	216.5	208.7	212.6
40°	6740.1	4013.6	637.7	466.1	394.0	321.8	245.7	189.2	165.8	158.0	156.0
42.5°	7009.2	3672.3	567.5	434.9	356.9	271.1	193.1	148.2	128.7	122.9	122.9
45°	7336.9	3344.7	518.8	401.8	317.9	218.4	152.1	119.0	107.3	103.4	103.4
47.5°	7767.9	3058.0	477.8	368.6	275.0	173.6	122.9	103.4	95.6	97.5	99.5
50°	8204.8	2845.4	433.0	331.5	226.2	142.4	105.3	91.7	89.7	91.7	91.7
52.5°	8534.3	2720.6	372.5	280.8	177.5	119.0	93.6	85.8	83.9	80.0	80.0
55°	8979.0	2693.3	296.4	228.2	140.4	99.5	83.9	78.0	72.2	68.3	66.3
57.5°	9550.4	2724.5	228.2	177.5	109.2	81.9	74.1	64.4	56.6	48.8	48.8
60°	9905.4	2654.3	177.5	136.5	80.0	66.3	56.6	46.8	37.1	31.2	29.3
62.5°	9792.3	2357.9	140.4	101.4	56.6	48.8	37.1	31.2	21.5	15.6	13.7
65°	9209.1	1903.5	113.1	70.2	41.0	29.3	19.5	19.5	9.8	2.0	0.0
67.5°	8060.4	1410.0	89.7	46.8	23.4	13.7	9.8	5.9	0.0	0.0	0.0
70°	6560.7	1018.0	70.2	29.3	13.7	9.8	3.9	2.0	0.0	0.0	0.0
72.5°	4165.8	583.1	54.6	17.6	9.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	1610.9	228.2	37.1	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	456.4	107.3	21.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.0	46.8	11.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.6	19.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.2	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	2.0	0.0	0.0	0.0	0.0	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)