

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: P528415

Luminaire Tested: **GALN-SA3C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11178 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

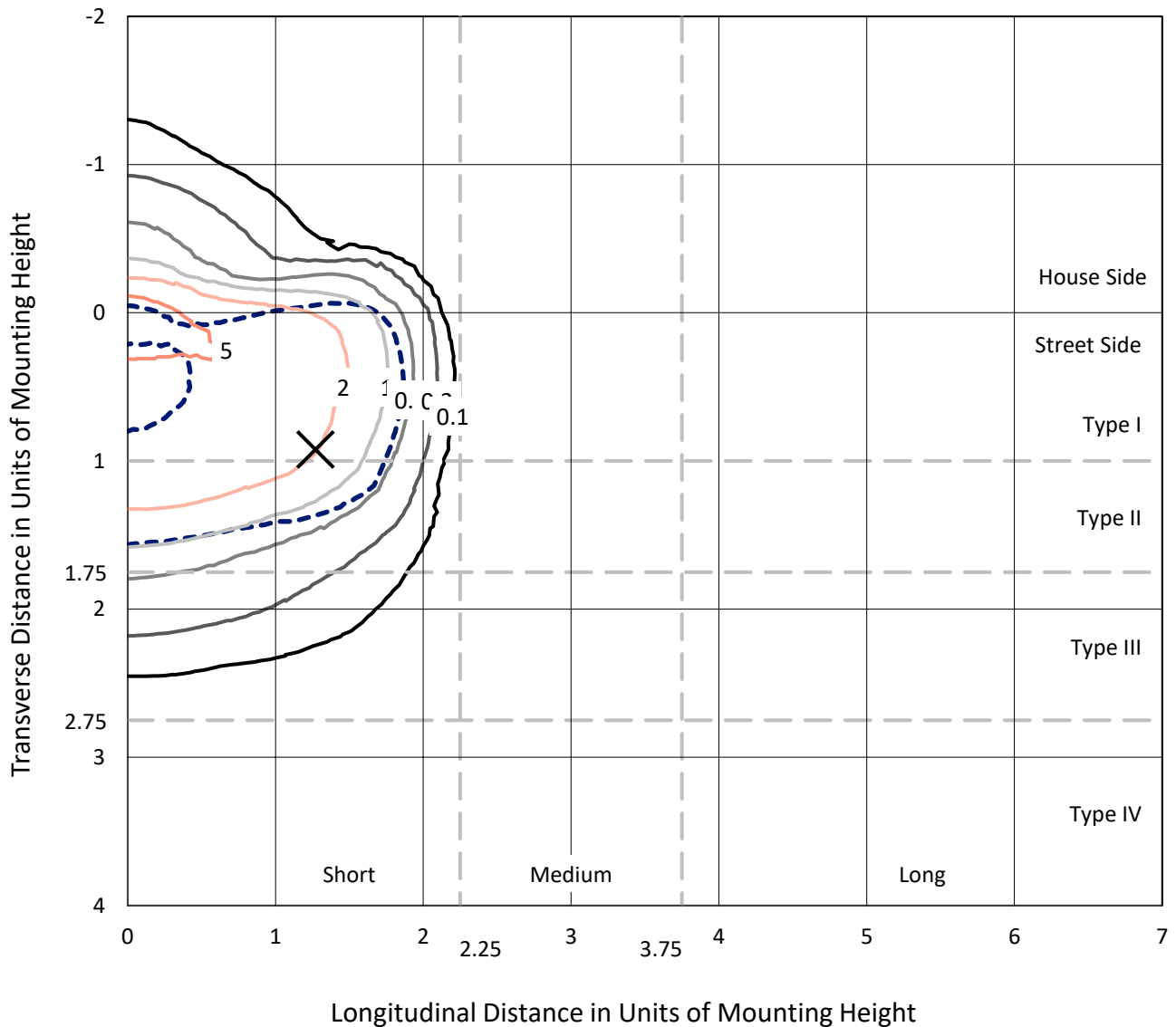
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

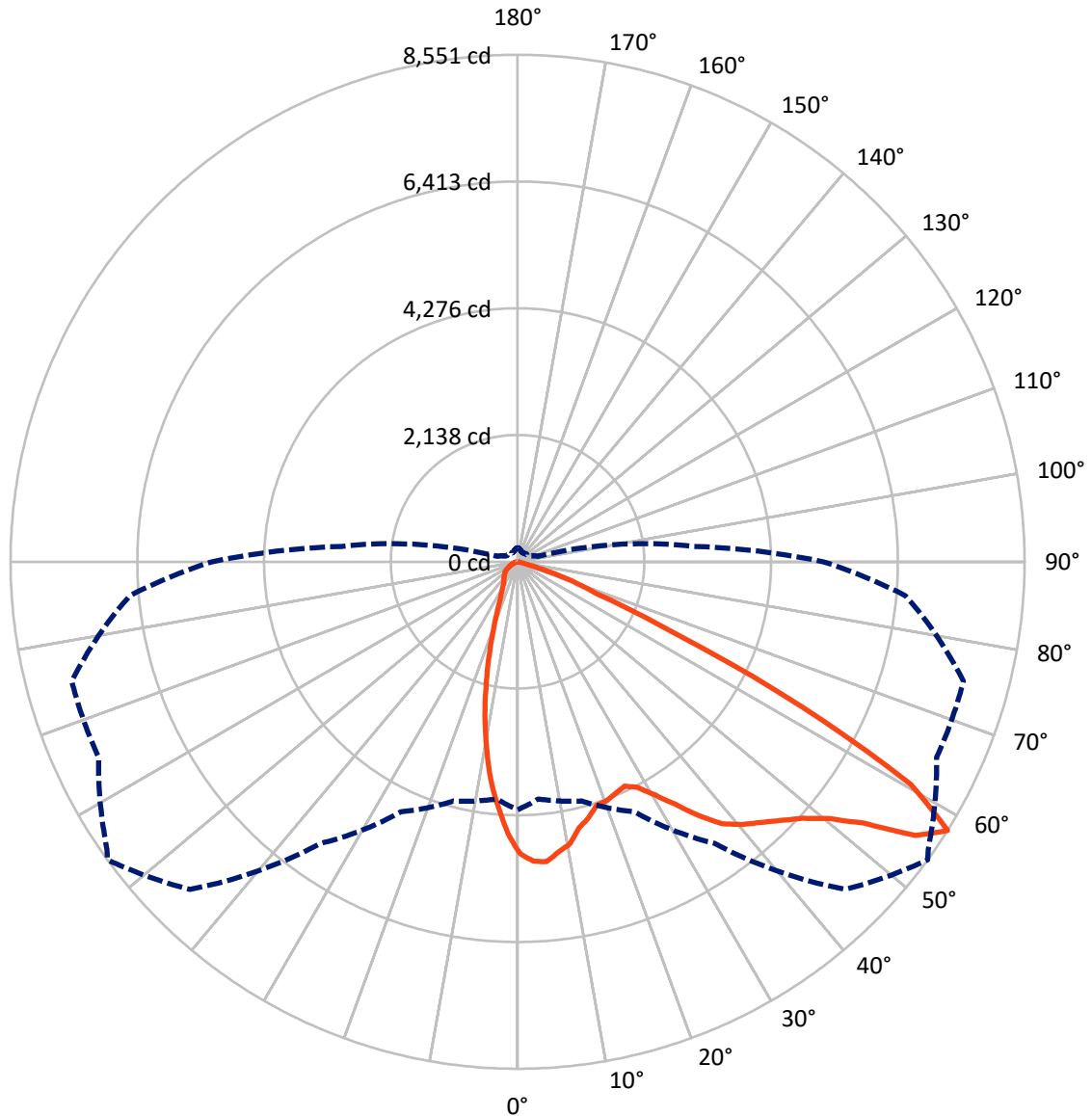
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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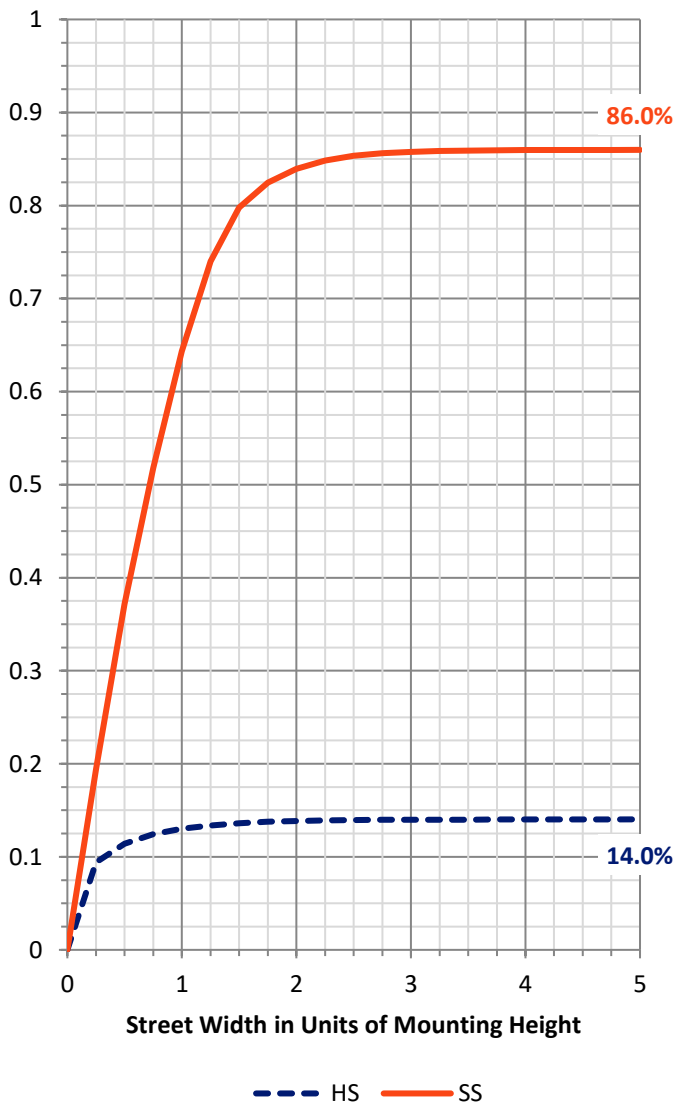
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.6	0.0	1579.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9598.4	0.0	9598.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	11178.0	0.0	11178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.1	3.7
10°-20°	879.7	7.9
20°-30°	1165.8	10.4
30°-40°	1694.3	15.2
40°-50°	2512.4	22.5
50°-60°	3141.6	28.1
60°-70°	1239.2	11.1
70°-80°	123.4	1.1
80°-90°	9.6	0.1
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°	11178.0	100.0
0°-180°	11178.0	100.0

Coefficient of Utilization

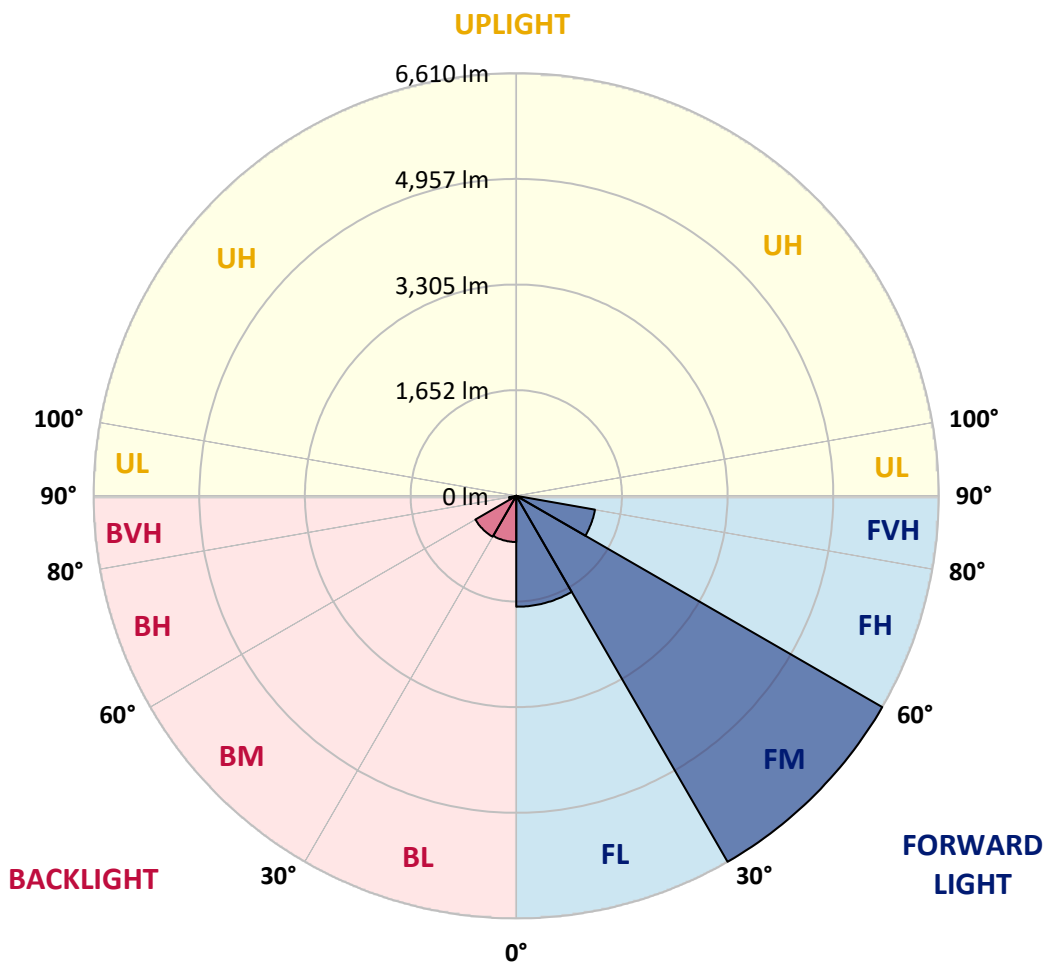


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.2	15.5			
FM (30°-60°)	6609.5	59.1			
FH (60°-80°)	1249.3	11.2			G1/1800
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	722.5	6.5	B2/1000		
BM (30°-60°)	738.7	6.6	B1/1000		
BH (60°-80°)	113.3	1.0	B1/500		G1/500
BVH (80°-90°)	5.2	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1
2.5°	5210.9	5156.9	5161.0	5142.3	5117.4	5136.1	5055.0	5073.7	5071.6	4961.5	4888.7
5°	5079.9	5138.1	5077.9	5127.8	5079.9	5131.9	5082.0	5044.6	4984.3	4903.3	4768.2
7.5°	4857.5	4801.4	4818.1	4880.4	4890.8	5007.2	4944.8	4992.7	4967.7	4807.7	4622.7
10°	4410.7	4398.2	4481.3	4564.5	4666.3	4791.0	4838.8	4811.8	4793.1	4732.8	4485.5
12.5°	4067.7	4103.0	4101.0	4238.1	4410.7	4481.3	4606.0	4601.9	4705.8	4593.6	4356.6
15°	3741.4	3760.1	3847.4	3932.6	4123.8	4325.4	4479.3	4500.0	4624.7	4545.8	4256.8
17.5°	3541.8	3514.8	3583.4	3685.3	3880.6	4144.6	4315.0	4364.9	4535.4	4518.7	4142.5
20°	3344.4	3344.4	3400.5	3521.0	3699.8	3997.0	4300.5	4285.9	4535.4	4487.6	4019.9
22.5°	3277.9	3311.1	3325.7	3417.1	3629.1	3884.8	4238.1	4265.2	4570.7	4473.0	3965.9
25°	3369.3	3325.7	3329.8	3402.6	3602.1	3830.7	4192.4	4252.7	4635.1	4545.8	3922.2
27.5°	3383.9	3427.5	3440.0	3489.9	3622.9	3847.4	4306.7	4429.4	4795.2	4716.2	3934.7
30°	3510.7	3554.3	3552.2	3637.4	3728.9	3982.5	4562.4	4587.3	5125.7	4930.3	4011.6
32.5°	3664.5	3710.2	3724.7	3824.5	3897.3	4229.8	4874.2	4938.6	5443.7	5267.0	4213.2
35°	3855.7	3839.1	3905.6	4005.3	4161.2	4591.5	5254.5	5362.6	5786.7	5703.5	4421.1
37.5°	4094.7	4073.9	4138.4	4300.5	4512.5	5019.7	5605.8	5676.5	6036.1	6108.8	4805.6
40°	4263.1	4271.4	4466.8	4685.0	4909.5	5427.1	5828.2	5896.8	6210.7	6487.1	5096.6
42.5°	4543.7	4595.7	4830.5	5096.6	5331.5	5732.6	6009.1	6075.6	6291.7	6790.6	5489.4
45°	4951.1	4928.2	5188.0	5485.3	5745.1	6050.6	6223.1	6200.3	6339.5	7092.0	5736.8
47.5°	5474.9	5479.0	5651.5	5905.1	6175.3	6327.1	6462.2	6381.1	6439.3	7410.0	6067.3
50°	5832.4	5863.6	6002.8	6262.6	6397.7	6630.5	6803.1	6753.2	6734.5	7601.2	6275.1
52.5°	5923.8	6017.4	6092.2	6416.5	6732.4	7100.3	7320.6	7426.6	7094.1	7665.7	6539.1
55°	5233.8	5316.9	5580.9	6025.7	6859.2	7844.4	8147.9	8150.0	7563.8	7952.5	6724.1
57.5°	4184.1	4015.7	4177.9	4649.7	5799.1	7813.2	8551.1	8453.4	7798.7	7784.1	6564.0
60°	2893.3	2851.8	2862.1	3049.2	4013.7	6214.8	7619.9	7746.7	7181.4	6746.9	5196.3
62.5°	2292.6	2257.3	2211.6	2190.8	2492.2	3872.3	5375.1	5553.9	5021.8	4375.3	3080.4
65°	1795.9	1775.1	1781.3	1864.4	1862.4	2197.0	2939.1	2866.3	2294.7	1696.1	968.6
67.5°	1211.8	1243.0	1267.9	1519.4	1648.3	1529.8	1419.6	1378.1	746.2	313.9	214.1
70°	681.8	685.9	712.9	949.9	1251.3	1186.8	979.0	979.0	372.1	114.3	122.6
72.5°	372.1	359.6	334.6	409.5	557.0	565.4	436.5	380.4	110.2	74.8	68.6
75°	180.8	178.8	153.8	126.8	120.6	99.8	76.9	70.7	49.9	47.8	41.6
77.5°	37.4	35.3	18.7	18.7	20.8	22.9	29.1	29.1	35.3	35.3	29.1
80°	0.0	0.0	2.1	8.3	14.5	20.8	24.9	24.9	29.1	29.1	22.9
82.5°	0.0	0.0	2.1	6.2	12.5	18.7	22.9	24.9	29.1	31.2	24.9
85°	0.0	0.0	0.0	4.2	10.4	14.5	12.5	12.5	10.4	8.3	4.2
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1	4924.1
2.5°	4851.3	4847.2	4751.5	4697.5	4599.8	4514.6	4446.0	4396.1	4396.1	4364.9	4335.8
5°	4714.1	4678.8	4475.1	4344.1	4159.2	4022.0	3928.4	3855.7	3741.4	3772.5	3649.9
7.5°	4543.7	4454.3	4184.1	3984.6	3728.9	3533.5	3334.0	3157.3	2986.9	2910.0	2951.5
10°	4360.8	4204.9	3841.1	3525.2	3207.2	2849.7	2616.9	2334.2	2159.6	2149.2	2103.5
12.5°	4167.5	3990.8	3548.1	3111.6	2693.8	2263.5	1908.1	1644.1	1525.6	1394.7	1419.6
15°	4022.0	3760.1	3221.7	2695.9	2140.9	1706.5	1349.0	1145.3	1033.0	1001.9	991.5
17.5°	3864.0	3583.4	2889.2	2253.1	1679.5	1228.4	970.7	873.0	829.3	829.3	823.1
20°	3699.8	3383.9	2558.7	1841.6	1259.6	916.6	777.4	746.2	744.1	742.0	742.0
22.5°	3591.7	3155.2	2259.4	1463.3	949.9	733.7	675.5	663.1	671.4	696.3	696.3
25°	3477.4	2934.9	1928.9	1128.6	735.8	629.8	596.5	604.9	625.6	648.5	640.2
27.5°	3361.0	2791.5	1617.1	885.5	602.8	550.8	538.3	557.0	579.9	600.7	594.5
30°	3334.0	2637.7	1322.0	671.4	517.6	480.1	488.5	505.1	527.9	536.3	544.6
32.5°	3375.5	2517.1	1082.9	550.8	451.0	440.7	440.7	449.0	463.5	482.2	476.0
35°	3494.0	2448.5	856.4	478.1	413.6	403.2	401.2	409.5	417.8	424.0	417.8
37.5°	3674.9	2394.5	700.5	424.0	388.7	372.1	367.9	365.8	374.1	376.2	380.4
40°	3905.6	2423.6	594.5	390.8	363.7	345.0	332.6	332.6	332.6	338.8	340.9
42.5°	4155.0	2463.1	513.4	372.1	340.9	318.0	305.5	301.4	305.5	313.9	311.8
45°	4416.9	2540.0	461.4	343.0	320.1	291.0	274.4	270.2	280.6	297.2	295.2
47.5°	4662.2	2650.1	421.9	324.3	299.3	272.3	251.5	247.3	266.1	288.9	291.0
50°	4907.4	2841.4	407.4	309.7	284.8	253.6	234.9	230.7	251.5	280.6	286.8
52.5°	5190.1	3047.1	397.0	291.0	268.1	239.0	218.2	214.1	237.0	274.4	276.4
55°	5375.1	3221.7	388.7	257.7	237.0	216.2	199.5	197.5	222.4	255.7	264.0
57.5°	5158.9	2978.5	359.6	224.5	201.6	191.2	176.7	176.7	197.5	228.6	234.9
60°	3911.8	1960.1	255.7	180.8	170.4	164.2	158.0	158.0	174.6	197.5	199.5
62.5°	2290.6	1055.9	164.2	145.5	145.5	139.3	128.9	128.9	145.5	158.0	160.0
65°	679.7	338.8	133.0	124.7	122.6	112.2	101.8	99.8	112.2	118.5	116.4
67.5°	195.4	155.9	110.2	103.9	101.8	85.2	79.0	76.9	79.0	74.8	72.7
70°	116.4	106.0	85.2	87.3	76.9	62.4	56.1	54.0	49.9	43.6	39.5
72.5°	64.4	64.4	62.4	66.5	54.0	41.6	35.3	29.1	22.9	18.7	16.6
75°	39.5	41.6	43.6	45.7	35.3	27.0	22.9	14.5	8.3	4.2	4.2
77.5°	27.0	29.1	31.2	33.3	29.1	24.9	18.7	10.4	2.1	0.0	0.0
80°	20.8	22.9	27.0	29.1	31.2	33.3	24.9	10.4	2.1	0.0	0.0
82.5°	22.9	24.9	31.2	29.1	29.1	29.1	22.9	10.4	2.1	0.0	0.0
85°	4.2	6.2	10.4	10.4	14.5	18.7	14.5	4.2	0.0	0.0	0.0
87.5°	0.0	0.0	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)