

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: P459526

Luminaire Tested: **GALN-SA9C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42950 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

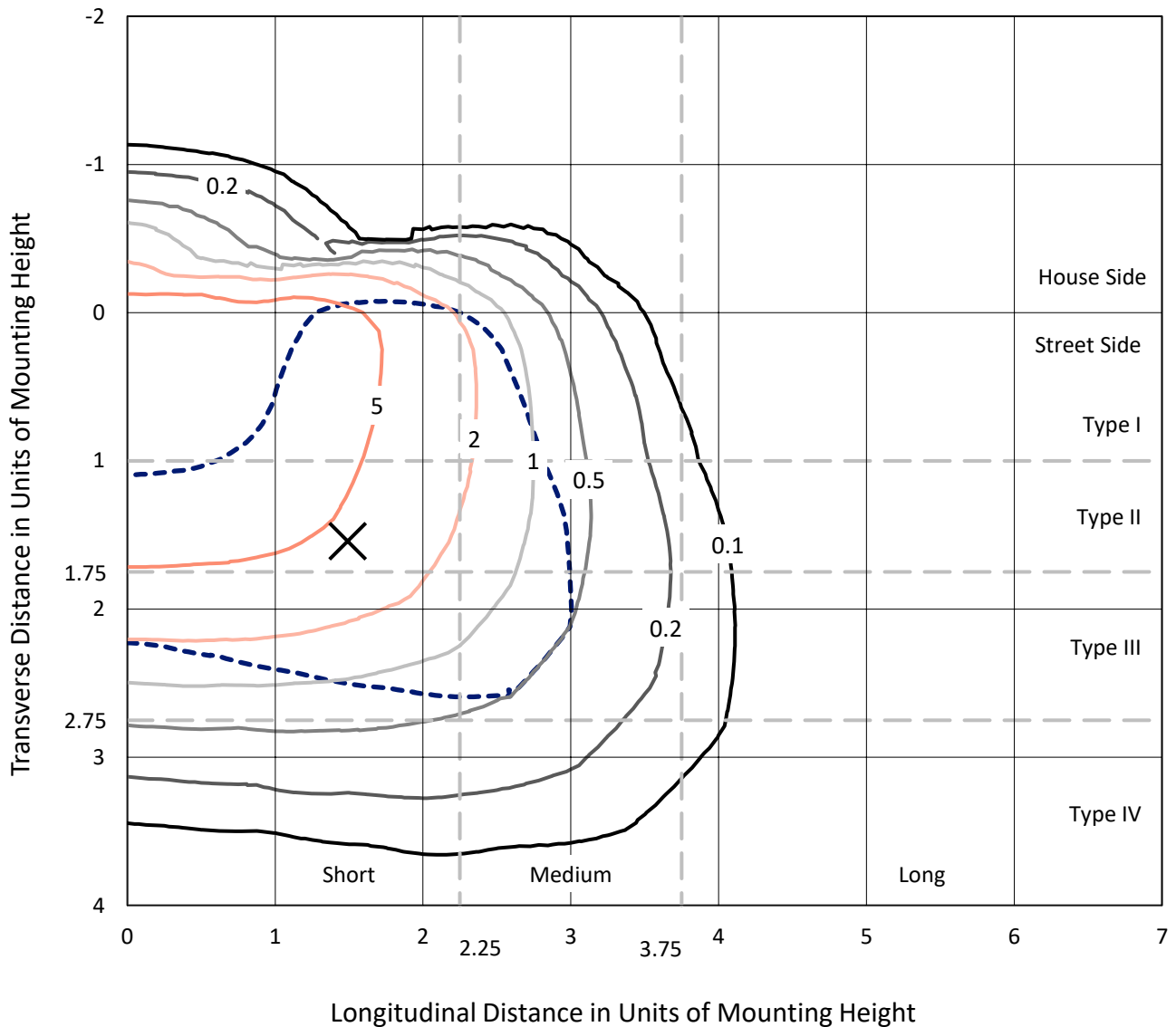
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

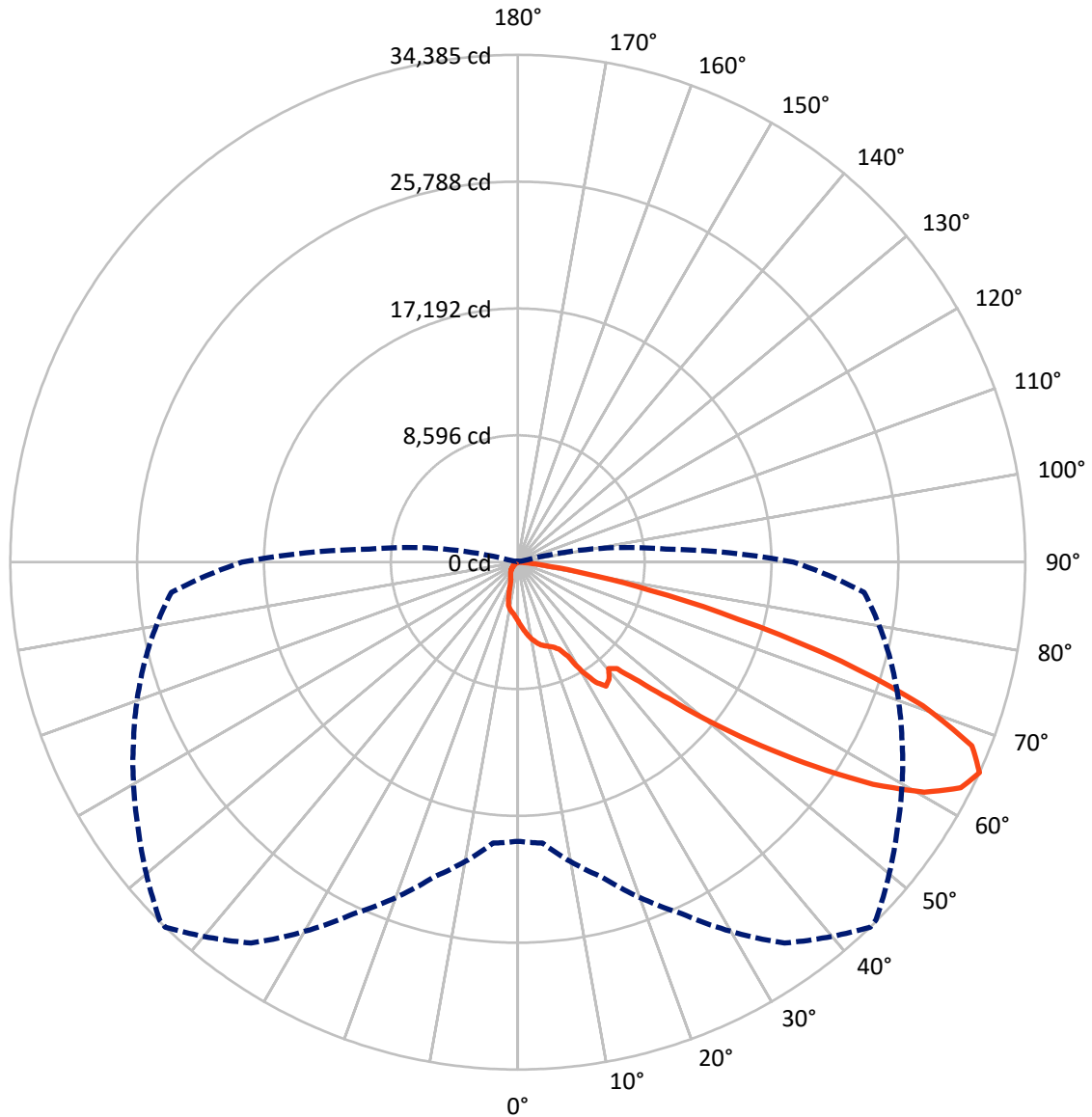
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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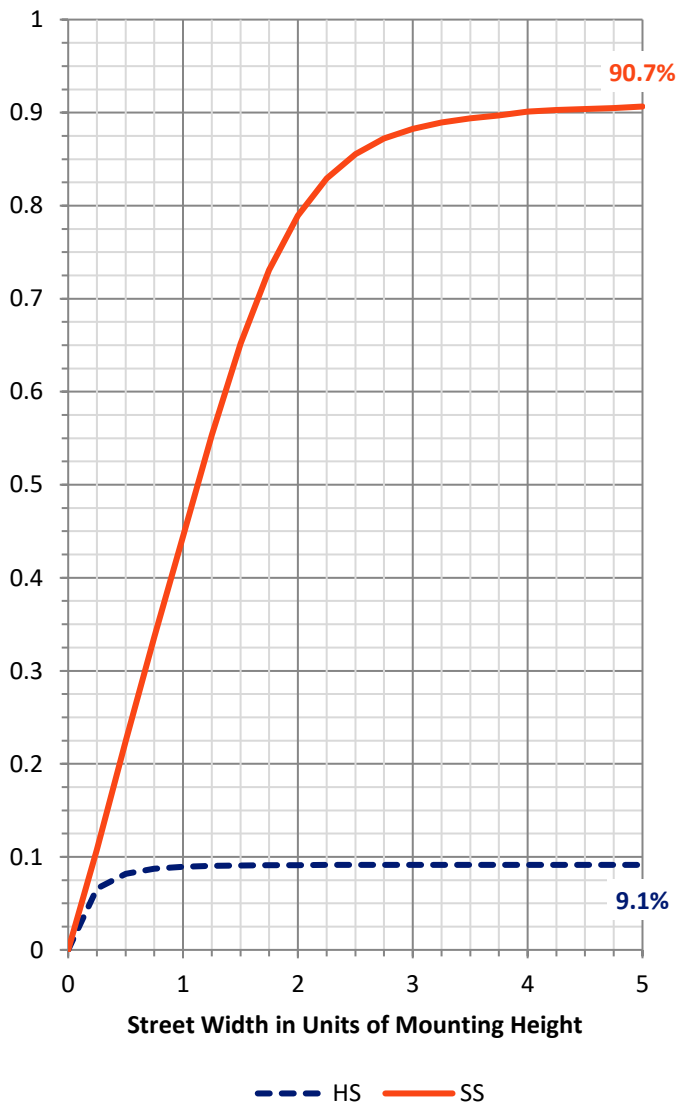
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.2	0.0	3957.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	38992.8	0.0	38992.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	42950.0	0.0	42950.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.6	0.9
10°-20°	1196.6	2.8
20°-30°	2029.0	4.7
30°-40°	3373.5	7.9
40°-50°	5890.2	13.7
50°-60°	11507.4	26.8
60°-70°	13351.3	31.1
70°-80°	4861.9	11.3
80°-90°	342.6	0.8
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°	42950.0	100.0
0°-180°	42950.0	100.0

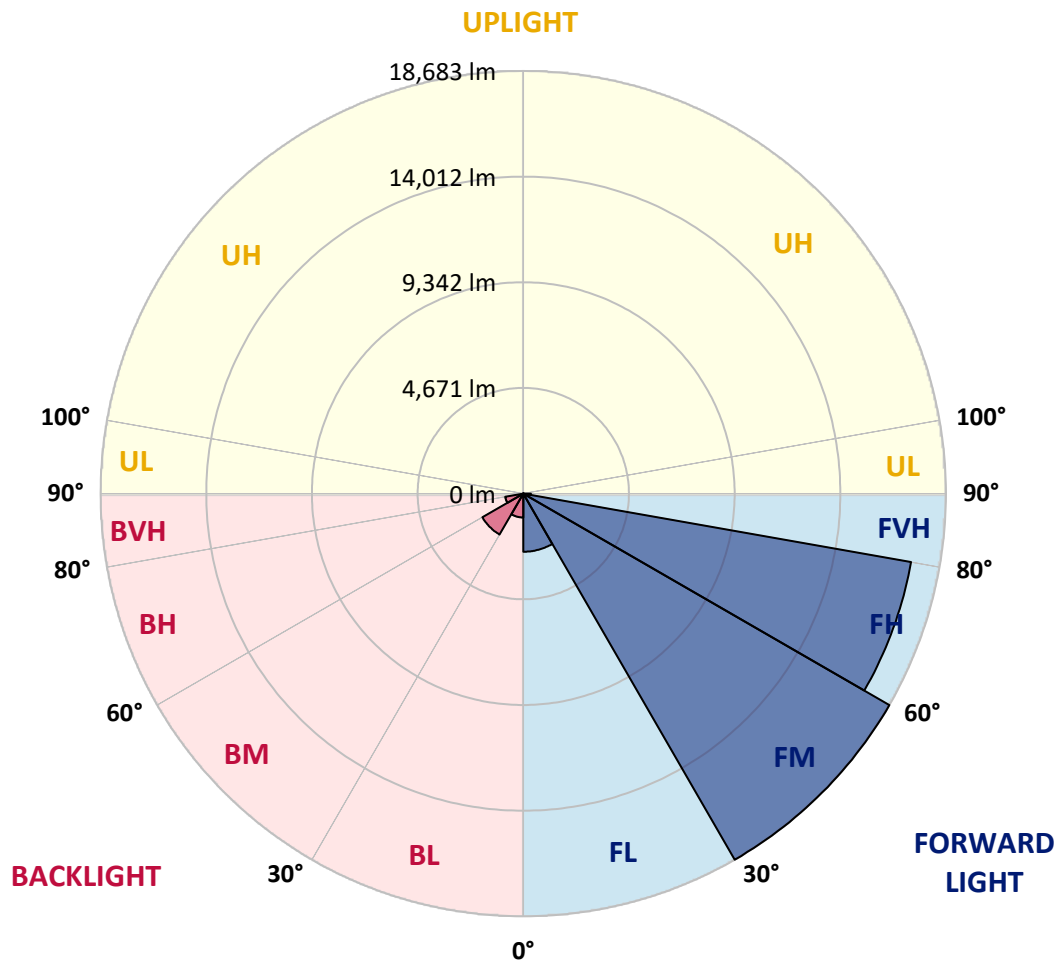


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2568.8	6.0			
FM	(30°-60°)	18683.3	43.5			
FH	(60°-80°)	17402.8	40.5			G5
FVH	(80°-90°)	337.9	0.8			G3/500
BL	(0°-30°)	1054.3	2.5	B3/2500		
BM	(30°-60°)	2087.8	4.9	B2/2500		
BH	(60°-80°)	810.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4
2.5°	4499.5	4479.8	4470.0	4417.4	4378.1	4328.8	4328.8	4266.5	4194.3	4115.5	4043.3
5°	5001.6	4968.8	4926.1	4880.2	4788.3	4657.0	4657.0	4525.8	4374.8	4240.2	4092.5
7.5°	5484.1	5454.5	5382.3	5293.7	5142.8	5004.9	4995.1	4804.7	4624.2	4420.7	4210.7
10°	5907.4	5884.5	5822.1	5651.4	5493.9	5313.4	5310.1	5096.8	4886.8	4637.3	4378.1
12.5°	6202.8	6206.1	6124.0	5959.9	5756.5	5585.8	5572.7	5362.6	5142.8	4873.6	4555.3
15°	6412.8	6412.8	6327.5	6143.7	5959.9	5809.0	5795.8	5612.1	5385.6	5093.5	4748.9
17.5°	6471.9	6491.6	6399.7	6235.6	6087.9	5956.7	5953.4	5799.1	5618.6	5336.4	4945.8
20°	6448.9	6468.6	6396.4	6268.4	6166.7	6091.2	6081.4	6019.0	5851.6	5585.8	5155.9
22.5°	6399.7	6419.4	6366.9	6291.4	6242.2	6265.2	6248.8	6301.3	6212.7	5891.0	5405.3
25°	6409.6	6429.3	6389.9	6347.2	6389.9	6531.0	6573.7	6800.1	6721.3	6278.3	5674.4
27.5°	6718.1	6757.4	6701.7	6721.3	6872.3	7200.5	7282.6	7673.1	7325.2	6770.6	6094.5
30°	7404.0	7377.7	7272.7	7367.9	7893.0	8588.8	8565.8	8503.4	7958.6	7338.3	6593.4
32.5°	8027.5	8004.6	7998.0	8408.2	9360.0	9698.0	9681.6	9077.8	8526.4	7988.2	7085.6
35°	8280.3	8191.6	8172.0	9166.4	10758.1	10311.8	10210.0	9314.1	9215.6	8697.1	7587.8
37.5°	9041.7	8979.3	8674.1	9291.1	10200.2	10052.5	9973.7	9721.0	9950.7	9323.9	8155.5
40°	10610.4	10436.5	10160.8	9556.9	9409.2	9471.6	9550.4	10242.8	10820.5	10180.5	8913.7
42.5°	12559.9	12520.5	12008.5	10882.8	9776.8	9862.1	9963.9	11332.4	12070.9	11470.3	10150.9
45°	14899.9	14955.7	14217.2	12888.1	11437.4	11509.7	11657.3	12940.6	13764.3	13475.5	12097.1
47.5°	17026.5	16983.9	16734.4	15352.8	14013.7	13852.9	14092.5	15004.9	16107.6	16153.6	14512.6
50°	19166.3	19392.8	19021.9	18480.4	17486.0	17148.0	17059.4	17505.7	19186.0	18966.1	17413.8
52.5°	22241.5	22359.6	21663.9	21526.0	21752.5	20656.3	20567.7	20676.0	22179.1	21424.3	19586.4
55°	24174.5	24105.6	23846.3	24922.8	25818.8	24450.2	24338.6	23902.1	24663.5	23160.4	21677.0
57.5°	24785.0	24883.4	25487.3	27433.5	29553.6	28391.8	28188.3	26947.7	26455.5	24778.4	23600.2
60°	24512.6	24693.1	25996.0	28890.6	31831.2	31657.3	31483.3	29399.3	27742.0	26130.6	24949.1
62.5°	22573.0	22825.7	24909.7	28631.4	32602.5	33688.8	33472.2	30928.7	28598.5	26786.9	25185.4
65°	18916.9	19104.0	22097.1	26278.2	31506.3	34384.6	34305.8	31407.9	28733.1	26186.3	23567.4
67.5°	13485.4	14122.1	16895.3	22146.3	28263.8	33196.5	33331.1	30833.5	27469.6	23590.4	19517.5
70°	8477.2	8910.4	10899.2	15854.9	22658.3	29123.7	29566.7	28204.7	23839.8	18388.5	13065.3
72.5°	4043.3	4364.9	5782.7	10036.1	15992.7	22914.3	23265.4	23153.9	18434.5	11585.1	6741.0
75°	1801.8	1923.2	2760.1	5123.1	10324.9	15402.0	16311.1	16462.1	11519.5	5667.9	2622.2
77.5°	918.9	922.2	1293.1	2481.1	5155.9	9189.3	9369.8	9898.2	6245.5	2497.5	912.4
80°	489.0	521.8	685.9	1171.6	2674.8	4525.8	4502.8	4949.1	2769.9	1224.2	305.2
82.5°	219.9	242.9	387.3	613.7	1306.2	1716.4	1851.0	2024.9	1188.1	781.1	134.6
85°	65.6	78.8	190.4	308.5	472.6	495.6	554.6	715.5	672.8	554.6	68.9
87.5°	9.8	9.8	78.8	85.3	68.9	88.6	91.9	101.7	216.6	203.5	36.1
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°	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4
2.5°	4003.9	3981.0	3898.9	3830.0	3770.9	3734.8	3692.1	3665.9	3652.8	3642.9	3646.2
5°	4020.3	3964.5	3823.4	3711.8	3626.5	3534.6	3472.3	3436.2	3419.7	3393.5	3393.5
7.5°	4112.2	4023.6	3826.7	3656.0	3508.4	3383.6	3265.5	3222.8	3193.3	3186.7	3180.2
10°	4243.5	4131.9	3862.8	3626.5	3416.5	3245.8	3078.4	2930.7	2815.9	2747.0	2737.1
12.5°	4407.6	4246.8	3918.6	3606.8	3337.7	3035.8	2592.7	2294.1	2093.9	2031.5	2041.3
15°	4558.6	4384.6	3974.4	3590.4	3193.3	2517.2	2015.1	1673.8	1572.0	1562.2	1565.5
17.5°	4739.1	4532.3	4040.0	3567.4	2796.2	1923.2	1496.6	1404.7	1424.3	1457.2	1453.9
20°	4926.1	4689.8	4118.8	3429.6	2231.7	1447.3	1322.6	1332.5	1362.0	1391.5	1398.1
22.5°	5126.3	4870.4	4210.7	3098.1	1703.3	1260.3	1253.7	1266.8	1296.4	1329.2	1335.7
25°	5402.0	5096.8	4279.6	2664.9	1289.8	1165.1	1178.2	1201.2	1227.4	1263.5	1270.1
27.5°	5756.5	5402.0	4315.7	2100.4	1115.8	1079.7	1083.0	1115.8	1148.7	1181.5	1181.5
30°	6215.9	5766.3	4243.5	1588.4	1030.5	997.7	984.6	1004.3	1046.9	1079.7	1083.0
32.5°	6626.2	6110.9	4053.2	1214.3	968.2	922.2	889.4	892.7	909.1	928.8	932.1
35°	7036.4	6445.7	3728.2	1020.7	902.5	850.0	800.8	774.5	761.4	751.6	761.4
37.5°	7561.5	6862.5	3295.0	928.8	846.7	781.1	712.2	656.4	610.4	580.9	587.5
40°	8237.6	7440.1	2783.1	869.7	794.2	715.5	623.6	551.4	472.6	446.3	433.2
42.5°	9353.4	8316.4	2244.8	820.5	741.7	646.5	531.7	433.2	361.0	334.8	341.3
45°	11115.8	9422.4	1729.6	768.0	689.2	571.1	446.3	341.3	282.2	269.1	275.7
47.5°	13452.5	10853.3	1332.5	708.9	623.6	489.0	351.2	269.1	233.0	229.7	226.5
50°	15651.4	12185.7	1112.6	643.3	544.8	407.0	288.8	226.5	203.5	200.2	200.2
52.5°	17640.3	13140.8	905.8	567.8	459.5	334.8	242.9	200.2	180.5	170.7	170.7
55°	19409.2	13764.3	735.1	475.9	361.0	265.8	210.0	180.5	157.5	144.4	141.1
57.5°	20744.9	13839.8	551.4	380.7	269.1	206.8	180.5	157.5	131.3	114.9	108.3
60°	21316.0	13186.7	407.0	288.8	200.2	164.1	144.4	128.0	98.5	82.0	78.8
62.5°	20741.7	11916.6	301.9	219.9	154.2	121.4	101.7	95.2	68.9	49.2	45.9
65°	18683.9	10082.0	239.6	167.4	114.9	88.6	65.6	62.4	42.7	23.0	19.7
67.5°	14968.8	7896.3	190.4	124.7	82.0	59.1	42.7	39.4	23.0	6.6	6.6
70°	9734.1	5047.6	154.2	91.9	52.5	39.4	26.3	19.7	13.1	3.3	0.0
72.5°	4814.6	2359.7	124.7	72.2	36.1	19.7	9.8	6.6	9.8	0.0	0.0
75°	1867.4	840.2	91.9	49.2	19.7	9.8	6.6	0.0	3.3	0.0	0.0
77.5°	620.3	279.0	55.8	26.3	13.1	6.6	0.0	0.0	0.0	0.0	0.0
80°	229.7	108.3	29.5	16.4	6.6	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	91.9	42.7	19.7	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.9	26.3	13.1	9.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.8	19.7	13.1	9.8	6.6	3.3	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)