

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: P532830

Luminaire Tested: **GALN-SA8B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34674 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

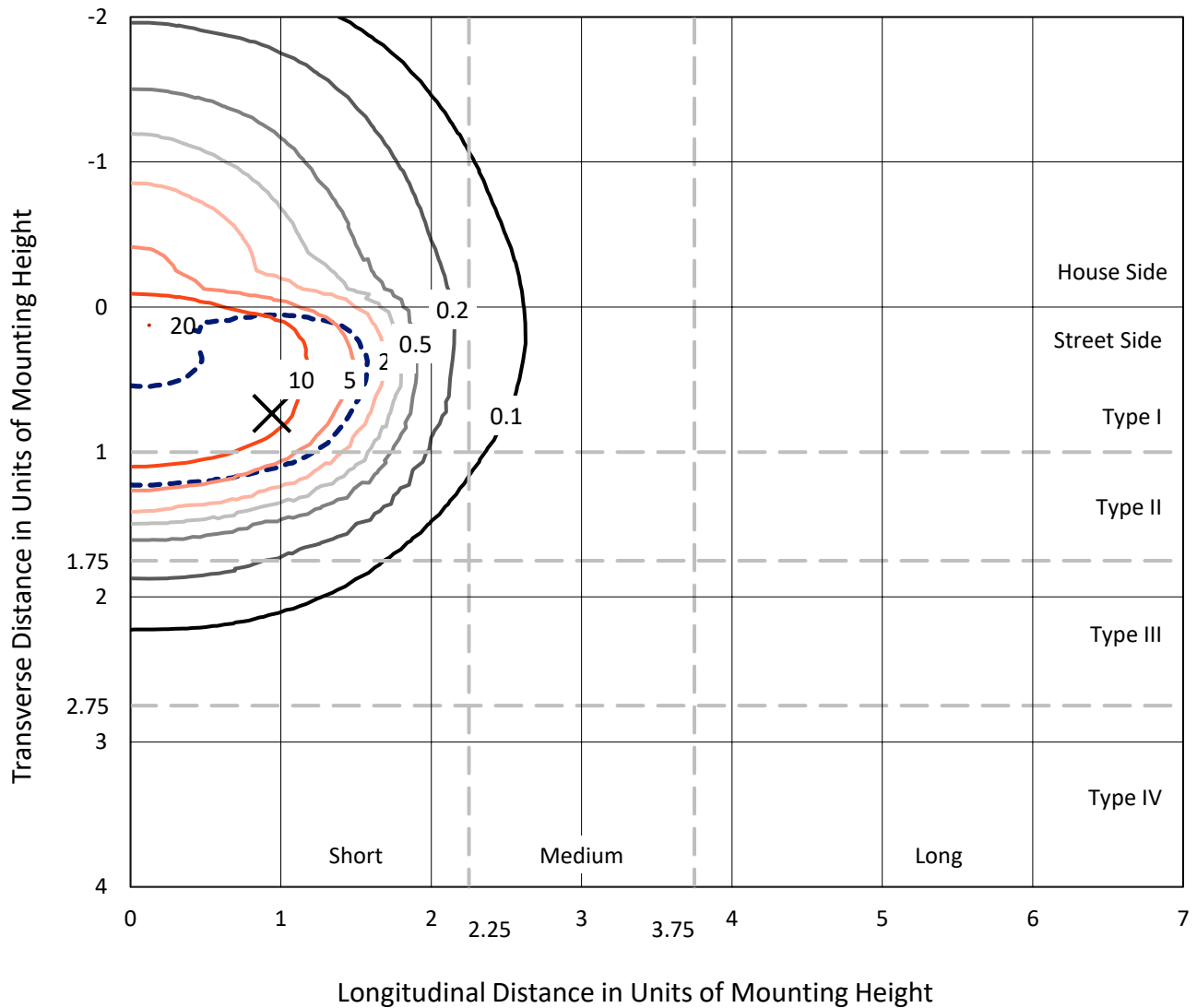
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532830
 CATALOG NUMBER: GALN-SA8B-727-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

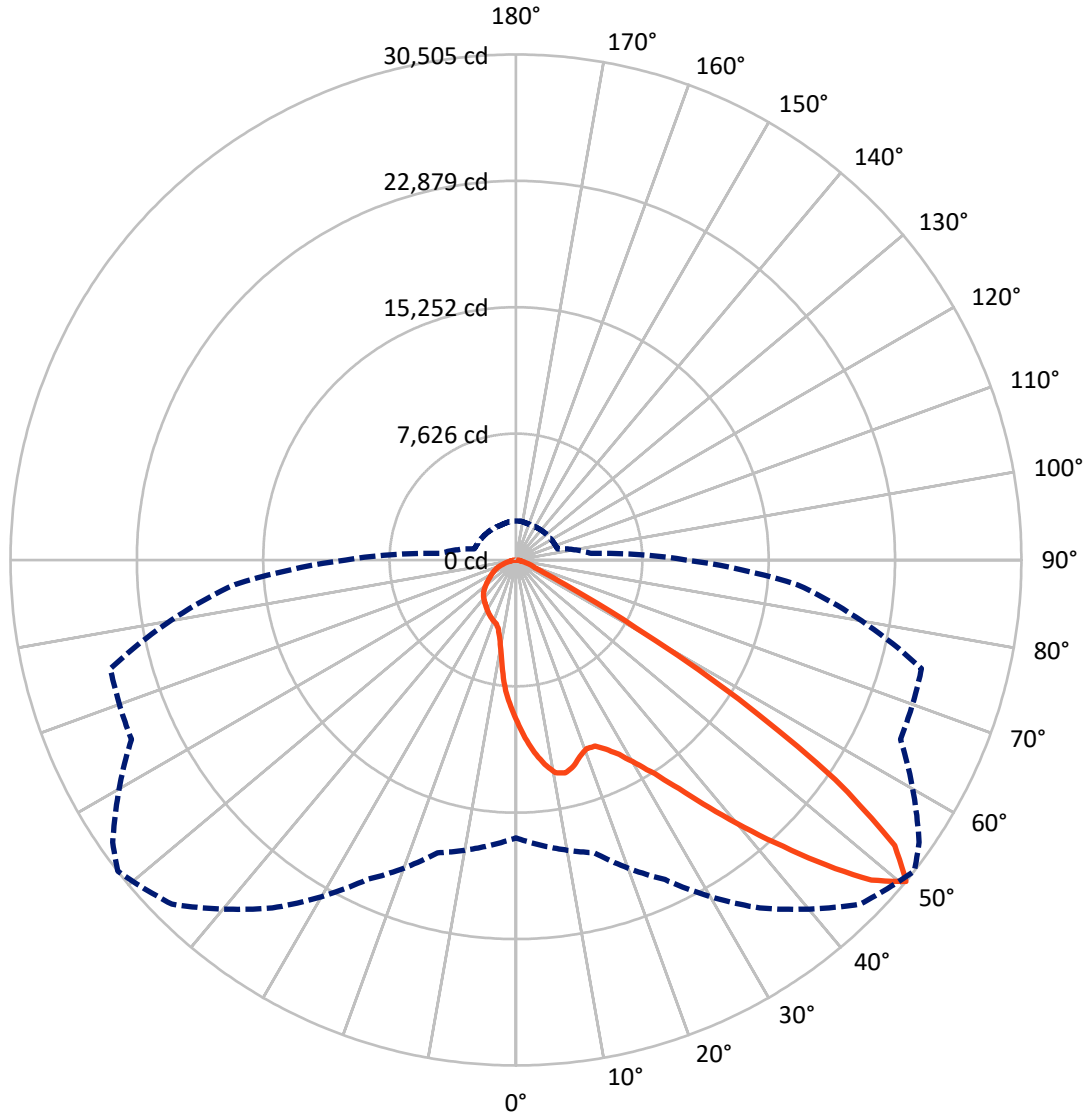
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

REPORT NUMBER: P532830
CATALOG NUMBER: GALN-SA8B-727-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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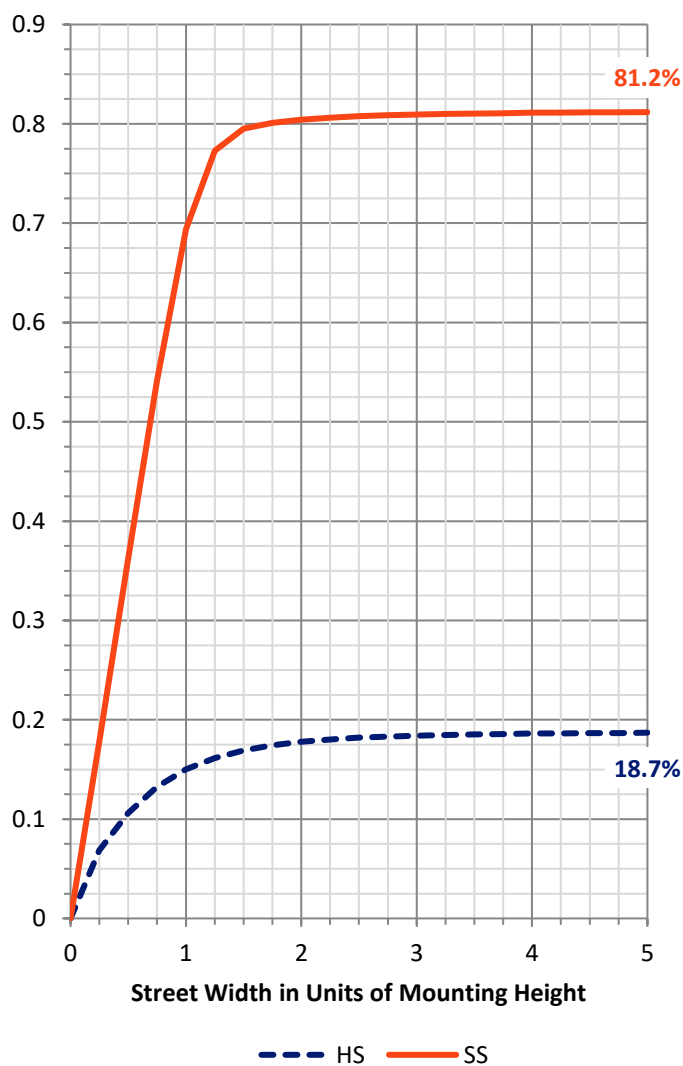
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6517.9	0.0	6517.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28156.1	0.0	28156.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	34674.0	0.0	34674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.9	2.6
10°-20°	2414.6	7.0
20°-30°	4067.2	11.7
30°-40°	6825.1	19.7
40°-50°	10440.8	30.1
50°-60°	7612.2	22.0
60°-70°	1694.1	4.9
70°-80°	611.0	1.8
80°-90°	108.2	0.3
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°	34674.0	100.0
0°-180°	34674.0	100.0

Coefficient of Utilization



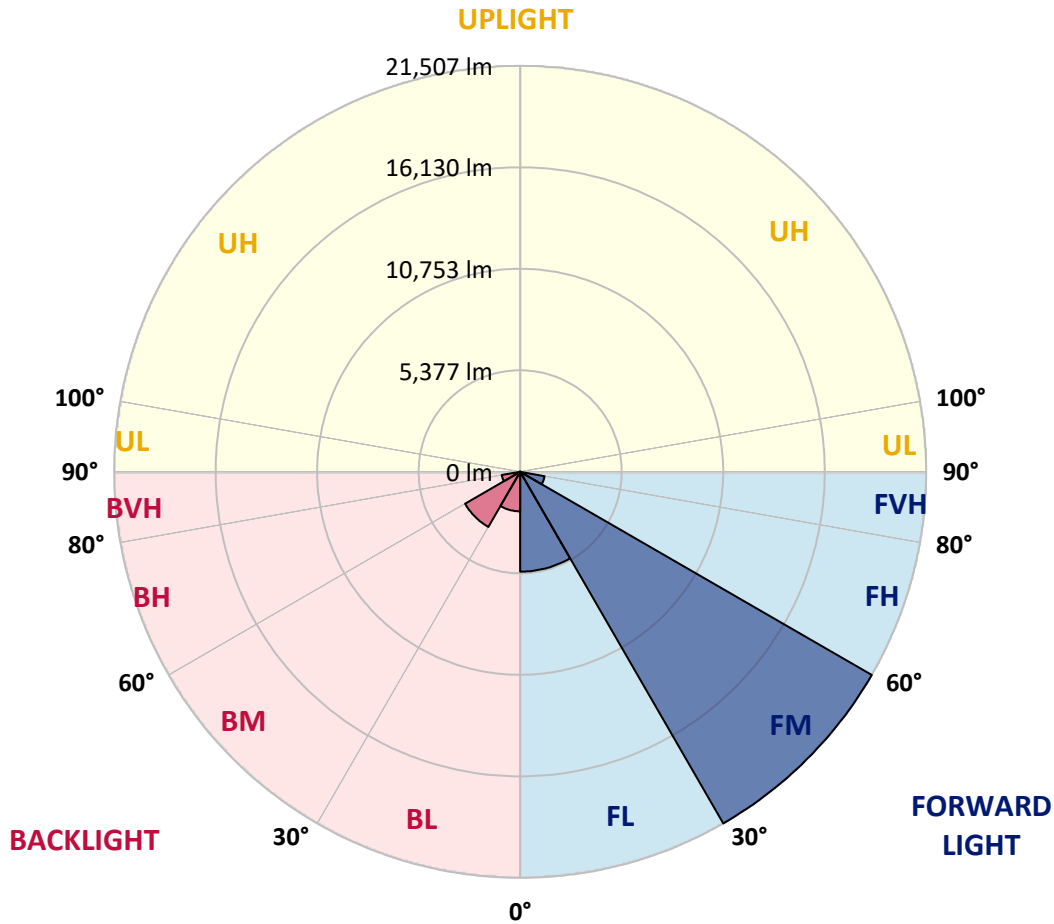
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5289.0	15.3			
FM (30°-60°)	21506.6	62.0			
FH (60°-80°)	1312.1	3.8			G1/1800
FVH (80°-90°)	48.5	0.1			G1/100
BL (0°-30°)	2093.7	6.0	B3/2500		
BM (30°-60°)	3371.5	9.7	B3/5000		
BH (60°-80°)	993.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0
2.5°	11508.2	11286.7	11311.8	11153.0	10981.7	10931.5	10756.0	10588.9	10463.5	10196.1	9949.5
5°	12577.9	12511.1	12410.8	12285.4	12155.9	11838.3	11658.6	11449.7	10990.0	10576.3	10166.8
7.5°	12732.6	12720.0	12774.3	12774.3	12820.3	12699.1	12444.2	12298.0	11809.1	11136.3	10375.8
10°	11646.1	11683.7	11947.0	12289.6	12766.0	13096.1	13054.3	13016.7	12481.8	11562.5	10622.3
12.5°	10781.1	10697.5	10852.1	11144.6	11859.2	12657.3	13196.4	13200.6	13062.7	12243.6	10802.0
15°	10292.2	10350.7	10392.5	10530.4	11069.4	11992.9	12941.5	13221.5	13827.4	12724.2	11086.1
17.5°	10605.6	10409.2	10400.8	10434.3	10710.1	11403.7	12469.3	12949.9	14245.3	13342.7	11437.2
20°	11015.1	11010.9	10893.9	10852.1	10848.0	11466.4	12160.1	12812.0	14466.7	14145.0	11792.3
22.5°	11733.8	11733.8	11541.6	11449.7	11253.3	11758.9	12201.9	12644.8	14834.5	14696.6	11963.7
25°	12937.3	12740.9	12410.8	12185.1	12072.3	12252.0	12644.8	13041.8	15156.2	15281.6	12318.9
27.5°	14048.9	13739.6	13576.7	13188.0	13037.6	12933.1	13292.5	13693.7	15532.3	16192.5	12511.1
30°	15310.8	15256.5	14964.0	14462.5	14090.6	13898.4	14228.5	14625.5	16221.8	17124.4	12954.0
32.5°	17567.3	17074.2	16677.3	16063.0	15457.1	15047.6	15373.5	15636.8	17366.8	18098.0	13438.8
35°	20003.5	19844.7	19159.4	18052.1	17124.4	16756.7	16948.9	17145.3	18699.8	19585.7	14253.6
37.5°	22397.9	22180.6	21616.5	20684.7	19556.4	18808.4	18946.3	19176.1	20195.8	21591.4	15248.1
40°	24119.6	23852.1	23568.0	23430.1	22310.2	21286.4	21207.0	21265.5	22218.3	23471.9	16351.3
42.5°	24244.9	24575.1	24662.8	25218.6	24955.3	24115.4	23626.5	23639.0	24148.8	25331.4	17467.0
45°	23981.7	23676.6	24324.3	25841.2	26710.4	27103.2	26280.0	26175.5	25343.9	26409.5	18022.8
47.5°	21219.5	21303.1	22397.9	24796.5	27307.9	29063.0	28870.8	28523.9	25983.3	26371.9	17935.1
50°	16773.4	17279.0	18294.4	21282.2	25636.4	29372.2	30504.7	29702.3	25603.0	25335.6	17040.8
52.5°	11169.7	11378.7	12047.2	15904.2	20613.6	26254.9	28624.2	28808.1	25252.0	23977.5	15908.4
55°	4972.7	4956.0	5896.2	8307.3	12933.1	19978.5	23388.3	24508.2	23902.3	22594.3	14805.2
57.5°	2106.1	2177.1	2561.6	3589.5	6360.0	12055.6	15845.7	16827.7	18382.2	18553.5	11357.8
60°	1424.9	1433.3	1537.8	1796.8	2661.8	5662.2	8311.5	9489.9	10601.4	10526.2	6025.7
62.5°	1119.9	1149.1	1228.5	1333.0	1579.6	2569.9	3719.1	4375.1	4446.2	3740.0	2285.8
65°	956.9	961.1	1040.5	1128.3	1236.9	1496.0	1792.7	1826.1	1847.0	1780.1	1679.8
67.5°	789.8	798.1	860.8	961.1	1061.4	1145.0	1228.5	1270.3	1366.4	1554.5	1529.4
70°	626.8	639.3	693.7	777.2	869.2	919.3	1023.8	1061.4	1149.1	1295.4	1353.9
72.5°	476.4	480.6	526.5	585.0	668.6	718.7	806.5	848.3	906.8	1032.1	1086.5
75°	342.7	355.2	388.6	417.9	430.4	463.8	547.4	593.4	677.0	731.3	735.5
77.5°	179.7	188.0	196.4	196.4	238.2	300.9	355.2	380.3	438.8	480.6	459.7
80°	71.0	75.2	96.1	129.5	167.1	217.3	254.9	267.4	317.6	342.7	355.2
82.5°	41.8	46.0	62.7	91.9	121.2	154.6	183.9	196.4	229.8	259.1	267.4
85°	20.9	25.1	37.6	58.5	79.4	96.1	91.9	87.8	87.8	83.6	87.8
87.5°	8.4	8.4	12.5	12.5	12.5	16.7	20.9	20.9	20.9	25.1	25.1
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°	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0	9774.0
2.5°	9786.6	9619.4	9464.8	9180.6	8871.4	8783.7	8424.3	8294.8	8202.8	8094.2	8060.8
5°	9836.7	9615.2	9118.0	8545.5	8090.0	7505.0	7120.5	6706.8	6406.0	6330.8	6309.9
7.5°	9941.2	9560.9	8704.3	7839.3	6907.4	6113.5	5507.6	5181.6	4893.3	4876.6	4847.3
10°	10058.2	9397.9	8253.0	6894.9	5704.0	4968.5	4604.9	4462.9	4391.8	4375.1	4366.8
12.5°	10154.3	9364.5	7747.3	5975.6	4851.5	4408.5	4299.9	4287.4	4316.6	4325.0	4341.7
15°	10196.1	9230.8	7137.3	5152.4	4320.8	4157.8	4203.8	4253.9	4274.8	4329.2	4287.4
17.5°	10275.5	9059.5	6385.1	4500.5	4024.1	4053.4	4132.8	4191.3	4224.7	4262.3	4208.0
20°	10317.3	8904.9	5678.9	4111.9	3919.6	3974.0	4082.6	4128.6	4170.4	4187.1	4124.4
22.5°	10279.7	8587.3	5056.3	3798.5	3819.3	3890.4	3986.5	4036.6	4011.6	3944.7	3907.1
25°	10179.4	8140.1	4408.5	3597.9	3677.3	3802.6	3877.9	3840.2	3794.3	3756.7	3744.1
27.5°	10175.2	7592.7	3940.5	3414.0	3556.1	3727.4	3702.3	3668.9	3689.8	3660.6	3627.1
30°	10196.1	7062.0	3556.1	3309.5	3468.3	3551.9	3581.2	3547.7	3572.8	3518.5	3535.2
32.5°	10087.4	6543.9	3305.4	3188.4	3363.9	3359.7	3455.8	3480.9	3422.4	3309.5	3326.3
35°	10133.4	6126.0	3092.3	3134.0	3246.9	3246.9	3322.1	3292.8	3138.2	3071.4	3088.1
37.5°	10451.0	5716.5	2987.8	3058.8	3134.0	3167.5	3142.4	3017.0	2979.4	2979.4	2987.8
40°	10751.8	5365.5	2925.1	3042.1	3029.6	3050.5	2866.6	2879.1	2879.1	2883.3	2862.4
42.5°	11019.3	5127.3	2875.0	2941.8	2962.7	2854.1	2741.2	2728.7	2758.0	2753.8	2737.1
45°	11115.4	4930.9	2803.9	2829.0	2845.7	2666.0	2611.7	2586.6	2620.1	2632.6	2649.3
47.5°	10747.7	4767.9	2724.5	2674.4	2641.0	2523.9	2452.9	2406.9	2448.7	2519.8	2536.5
50°	10275.5	4554.8	2599.2	2503.1	2432.0	2381.9	2331.7	2285.8	2315.0	2365.2	2352.6
52.5°	9577.6	4220.5	2440.4	2340.1	2218.9	2231.4	2185.5	2160.4	2177.1	2177.1	2164.6
55°	8583.1	3468.3	2172.9	2101.9	2001.6	2035.0	2043.4	2010.0	1976.5	2005.8	1980.7
57.5°	5858.6	2448.7	1938.9	1938.9	1838.6	1884.6	1880.4	1801.0	1721.6	1730.0	1713.3
60°	3388.9	1951.5	1788.5	1771.8	1667.3	1704.9	1713.3	1659.0	1537.8	1546.1	1529.4
62.5°	1926.4	1667.3	1562.8	1537.8	1516.9	1550.3	1550.3	1479.3	1374.8	1383.2	1366.4
65°	1638.1	1546.1	1395.7	1391.5	1383.2	1391.5	1358.1	1282.9	1190.9	1153.3	1157.5
67.5°	1487.6	1429.1	1282.9	1245.3	1220.2	1216.0	1153.3	1082.3	1040.5	1007.1	1002.9
70°	1303.8	1257.8	1149.1	1099.0	1073.9	1015.4	952.7	906.8	848.3	831.6	848.3
72.5°	1032.1	1028.0	986.2	931.9	877.5	831.6	777.2	714.6	660.2	647.7	618.5
75°	714.6	722.9	731.3	722.9	677.0	618.5	555.8	505.6	438.8	401.2	392.8
77.5°	468.0	480.6	493.1	476.4	447.1	392.8	351.0	288.3	238.2	208.9	204.8
80°	342.7	359.4	367.7	355.2	321.8	280.0	234.0	183.9	146.3	121.2	121.2
82.5°	263.3	280.0	288.3	267.4	234.0	200.6	167.1	129.5	100.3	79.4	75.2
85°	91.9	87.8	104.5	108.6	129.5	121.2	100.3	75.2	58.5	41.8	37.6
87.5°	25.1	25.1	29.3	29.3	25.1	20.9	20.9	20.9	16.7	12.5	12.5
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)