

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: P458270

Luminaire Tested: **GALN-SA9C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50935 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
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

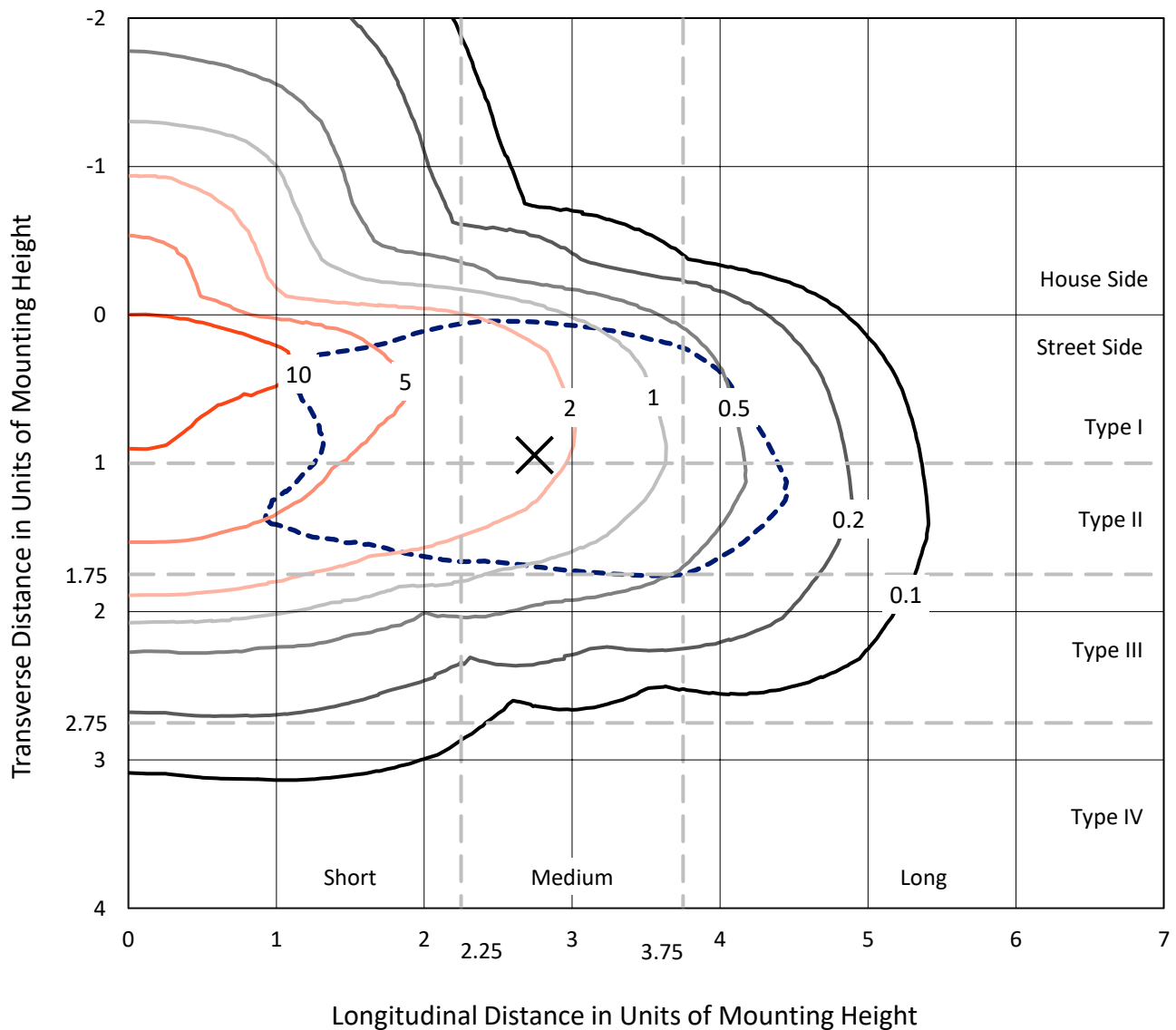


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

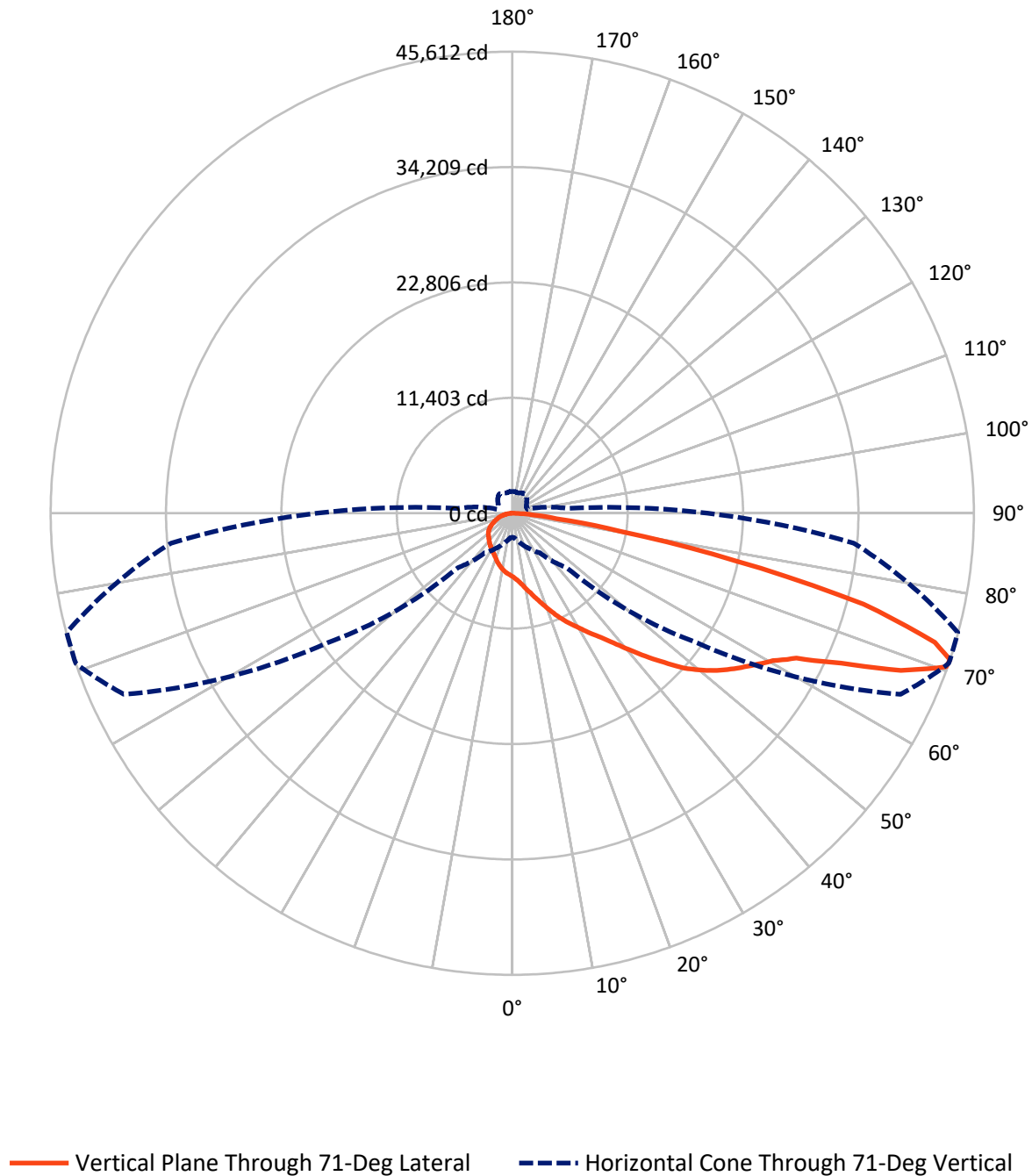


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9160.5	0.0	9160.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	41774.5	0.0	41774.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	50935.0	0.0	50935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.7	1.2
10°-20°	2039.2	4.0
20°-30°	3563.8	7.0
30°-40°	5300.6	10.4
40°-50°	7809.8	15.3
50°-60°	10933.8	21.5
60°-70°	12229.1	24.0
70°-80°	7470.0	14.7
80°-90°	960.9	1.9
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°	50935.0	100.0
0°-180°	50935.0	100.0

Coefficient of Utilization



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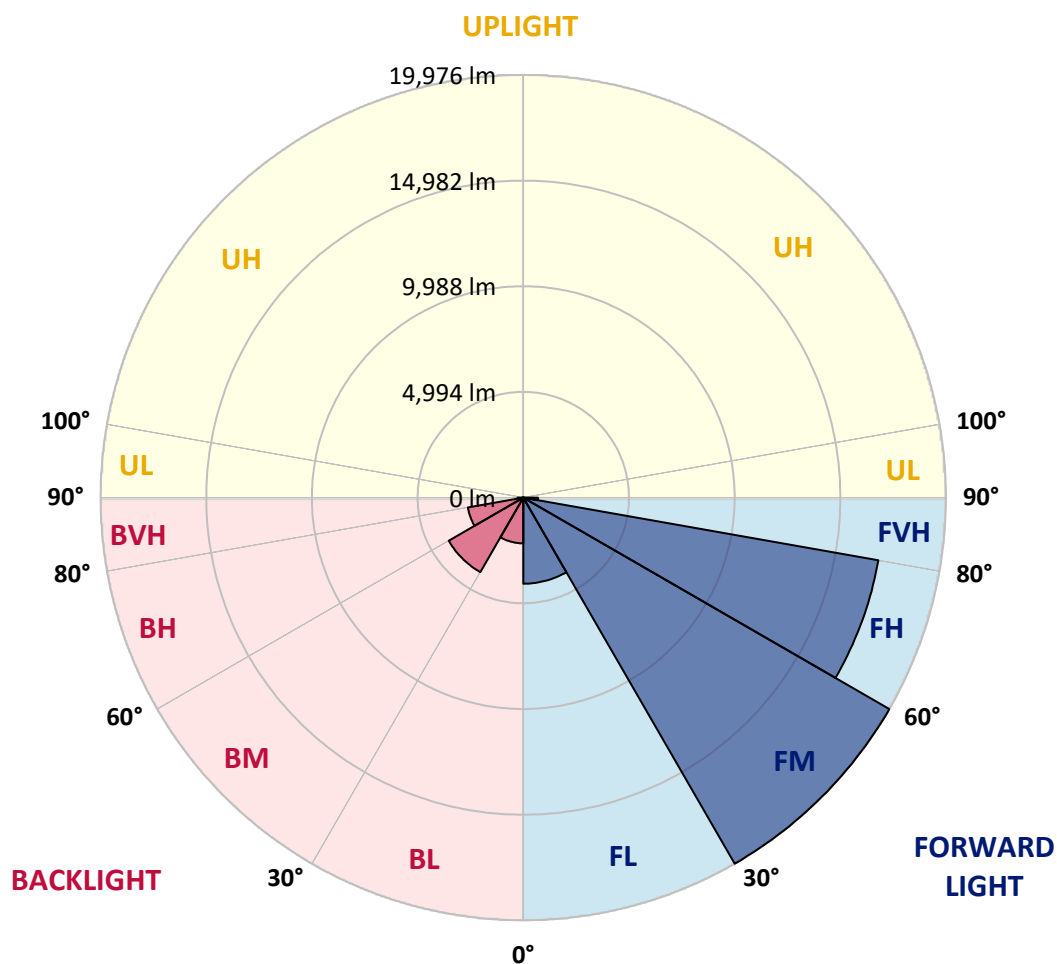
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4069.7	8.0			
FM	(30°-60°)	19975.7	39.2			
FH	(60°-80°)	17037.6	33.4			G5
FVH	(80°-90°)	691.4	1.4			G4/750
BL	(0°-30°)	2160.9	4.2	B3/2500		
BM	(30°-60°)	4068.6	8.0	B3/5000		
BH	(60°-80°)	2661.5	5.2	B4/5000		G4/5000
BVH	(80°-90°)	269.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3
2.5°	6939.9	6906.3	6909.1	6861.6	6800.0	6732.8	6637.6	6553.6	6486.4	6447.2	6332.5
5°	7690.2	7656.6	7614.6	7511.0	7466.2	7301.1	7091.1	6900.7	6755.2	6674.0	6444.4
7.5°	8297.7	8289.3	8278.1	8219.3	8104.5	7875.0	7695.8	7365.5	7149.9	6995.9	6604.0
10°	8672.8	8686.8	8695.2	8706.4	8658.8	8538.5	8292.1	7875.0	7600.6	7404.7	6811.2
12.5°	8863.2	8877.2	8924.8	9028.4	9092.8	9078.8	8877.2	8468.5	8090.5	7833.0	7032.3
15°	8980.8	9003.2	9087.2	9224.3	9439.9	9577.1	9479.1	9101.1	8686.8	8381.7	7295.5
17.5°	9109.5	9134.7	9227.1	9423.1	9705.8	10002.6	10109.0	9784.2	9333.5	8969.6	7589.4
20°	9182.3	9215.9	9347.5	9605.1	9935.4	10366.5	10719.3	10548.5	10055.8	9652.6	7928.2
22.5°	9299.9	9327.9	9439.9	9714.2	10109.0	10649.3	11329.5	11293.2	10859.2	10338.5	8300.5
25°	9619.1	9663.8	9719.8	9885.0	10265.7	10937.6	11836.3	12088.2	11637.5	11055.2	8642.0
27.5°	10220.9	10257.3	10254.5	10276.9	10492.5	11186.8	12275.8	12874.9	12410.1	11780.3	8972.4
30°	10906.8	10920.8	10932.0	10881.6	10929.2	11441.5	12678.9	13653.1	13188.4	12524.9	9260.7
32.5°	11741.1	11769.1	11673.9	11545.1	11505.9	11819.5	13012.0	14431.4	14109.4	13280.8	9546.3
35°	12726.5	12799.3	12606.1	12379.4	12219.8	12362.6	13460.0	15226.4	15052.9	14246.6	9924.2
37.5°	13851.9	13941.5	13762.3	13317.2	13090.4	13129.6	14045.1	16209.1	16245.5	15346.8	10486.9
40°	14772.9	14890.5	14896.1	14266.2	13921.9	13966.7	14786.9	17267.3	17684.4	16707.4	11150.4
42.5°	15380.4	15495.2	15615.6	15246.0	14884.9	15139.7	15652.0	18415.1	19302.5	18359.1	12077.0
45°	16046.7	16150.3	16217.5	16049.5	15847.9	16508.6	16696.2	19635.6	21027.0	20203.9	13090.4
47.5°	16819.4	16934.1	16998.5	16838.9	16763.4	17709.6	17821.6	20775.0	22869.1	21995.6	14210.2
50°	17849.6	17936.3	17902.8	17802.0	17785.2	18630.6	18902.2	21841.6	24389.2	23924.5	15372.0
52.5°	19131.7	19235.3	19271.7	19128.9	19064.5	19288.5	19772.8	22813.1	25772.1	25581.8	16612.2
55°	19907.2	20072.4	20626.7	20850.6	21004.6	20139.5	20710.6	23885.3	27012.3	27328.6	17944.7
57.5°	18913.4	19126.1	20366.3	21486.1	22933.4	22267.2	22040.4	25005.1	28252.5	29022.3	19540.5
60°	16489.0	16536.6	18135.1	20198.3	23109.8	25002.3	24814.7	26785.5	29596.2	30730.0	21642.9
62.5°	11438.7	11539.5	13429.2	16721.4	20931.8	25987.7	29534.6	29859.4	31522.3	33286.0	24725.1
65°	5898.5	5767.0	7488.6	10509.3	15780.7	23647.3	33358.8	35511.6	35699.1	37283.6	29064.3
67.5°	3630.9	3689.7	4496.0	6136.5	9330.7	17186.1	32958.4	42417.9	41429.7	42191.2	33092.8
70°	2726.7	2799.5	3353.8	4199.2	5688.6	9826.2	26505.6	44092.0	45472.2	45276.2	34319.0
71°	2371.2	2446.8	3023.5	3821.3	4778.7	7583.8	22331.6	42339.5	45612.1	45578.5	33857.1
72.5°	2021.2	2068.8	2519.5	3236.2	4028.5	5316.2	16777.4	37972.3	43666.5	44783.5	32208.2
75°	1587.3	1623.7	1825.3	2469.2	3171.8	3264.2	9003.2	28468.0	35864.3	37991.9	26813.5
77.5°	1293.4	1318.6	1422.1	1833.7	2446.8	2312.4	4722.7	18529.8	22468.7	24610.3	15794.7
80°	1027.4	1055.4	1117.0	1243.0	1833.7	1648.9	2253.6	9389.5	10853.6	10831.2	6304.5
82.5°	797.9	806.3	879.0	912.6	1254.2	1170.2	1220.6	3975.3	4403.6	4549.2	2276.0
85°	503.9	529.1	778.3	699.9	750.3	685.9	601.9	1578.9	1945.6	1917.7	909.8
87.5°	154.0	162.4	263.2	296.7	333.1	299.5	221.2	464.7	568.3	615.9	226.8
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°	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3
2.5°	6287.7	6256.9	6147.7	6058.1	5974.1	5881.7	5803.3	5781.0	5761.4	5753.0	5750.2
5°	6346.4	6254.1	6038.5	5862.1	5722.2	5593.4	5512.2	5475.8	5439.4	5439.4	5450.6
7.5°	6430.4	6262.5	5929.3	5666.2	5489.8	5369.4	5310.6	5305.0	5313.4	5321.8	5324.6
10°	6522.8	6256.9	5769.8	5442.2	5285.4	5229.5	5232.3	5279.8	5324.6	5358.2	5363.8
12.5°	6612.4	6223.3	5582.2	5232.3	5131.5	5142.7	5221.1	5327.4	5414.2	5461.8	5464.6
15°	6713.2	6170.1	5355.4	5033.5	4999.9	5086.7	5232.3	5394.6	5526.2	5604.6	5613.0
17.5°	6797.2	6080.5	5117.5	4840.3	4882.3	5041.9	5243.4	5453.4	5613.0	5711.0	5727.8
20°	6892.4	5965.7	4871.1	4655.6	4775.9	4991.5	5221.1	5447.8	5613.0	5708.2	5730.6
22.5°	6967.9	5803.3	4636.0	4504.4	4680.8	4929.9	5145.5	5327.4	5461.8	5512.2	5545.8
25°	6998.7	5599.0	4414.8	4381.2	4605.2	4829.1	4974.7	5078.3	5120.3	5114.7	5128.7
27.5°	6981.9	5363.8	4224.4	4283.2	4510.0	4672.4	4745.1	4736.7	4661.2	4591.2	4624.8
30°	6911.9	5083.9	4064.9	4182.4	4386.8	4476.4	4465.2	4356.0	4213.2	4081.7	4090.1
32.5°	6786.0	4781.5	3916.5	4067.7	4213.2	4252.4	4176.8	4034.1	3829.7	3658.9	3633.7
35°	6679.6	4493.2	3784.9	3936.1	4039.7	4020.1	3947.3	3762.5	3577.8	3426.6	3401.4
37.5°	6662.8	4246.8	3658.9	3787.7	3846.5	3818.5	3728.9	3572.2	3505.0	3390.2	3376.2
40°	6752.4	4073.3	3530.2	3630.9	3658.9	3636.5	3538.6	3449.0	3510.6	3482.6	3482.6
42.5°	6995.9	3980.9	3415.4	3474.2	3496.6	3513.4	3443.4	3367.8	3443.4	3314.6	3272.6
45°	7382.3	3983.7	3311.8	3320.2	3387.4	3446.2	3398.6	3286.6	3247.4	2989.9	2939.5
47.5°	7950.6	4078.9	3227.8	3174.6	3295.0	3393.0	3325.8	3163.4	2989.9	2819.1	2788.3
50°	8614.0	4249.6	3152.2	3023.5	3171.8	3325.8	3275.4	3085.0	2905.9	2802.3	2782.7
52.5°	9350.3	4465.2	3059.8	2855.5	3020.7	3295.0	3286.6	3073.8	2827.5	2757.5	2740.7
55°	10260.1	4678.0	2945.1	2659.5	2886.3	3269.8	3255.8	2981.5	2810.7	2760.3	2754.7
57.5°	11318.3	4985.9	2779.9	2460.8	2732.3	3166.2	3135.4	2925.5	2754.7	2718.3	2715.5
60°	13023.2	5464.6	2544.7	2278.8	2575.5	2984.3	3023.5	2830.3	2665.1	2656.7	2653.9
62.5°	15265.6	6136.5	2301.2	2091.2	2393.6	2749.1	2861.1	2701.5	2569.9	2611.9	2617.5
65°	18361.9	6702.0	2049.2	1931.6	2192.0	2522.3	2707.1	2581.1	2463.6	2544.7	2544.7
67.5°	20380.3	6713.2	1819.7	1766.5	1987.6	2332.0	2544.7	2438.4	2326.4	2463.6	2469.2
70°	19960.4	5881.7	1629.3	1592.9	1788.9	2127.6	2365.6	2281.6	2152.8	2276.0	2231.2
71°	19282.9	5419.8	1553.7	1525.7	1710.5	2029.6	2281.6	2211.6	2082.8	2164.0	2138.8
72.5°	18202.3	4705.9	1430.5	1436.1	1592.9	1906.5	2164.0	2091.2	1962.4	2007.2	1998.8
75°	15386.0	4109.7	1223.4	1248.6	1369.0	1696.5	1928.9	1872.9	1741.3	1741.3	1732.9
77.5°	9619.1	2872.3	1016.2	1030.2	1161.8	1452.9	1657.3	1609.7	1483.7	1441.7	1430.5
80°	3588.9	1483.7	795.1	811.9	893.0	1145.0	1371.8	1327.0	1198.2	1150.6	1105.8
82.5°	1357.8	744.7	585.1	571.1	657.9	873.4	1075.0	1021.8	921.0	806.3	772.7
85°	512.3	369.5	358.3	347.1	386.3	517.9	666.3	655.1	548.7	467.5	459.1
87.5°	134.4	120.4	140.0	103.6	109.2	98.0	100.8	42.0	19.6	8.4	5.6
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)