

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: P456418

Luminaire Tested: **GALN-SA7C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38588 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 377
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

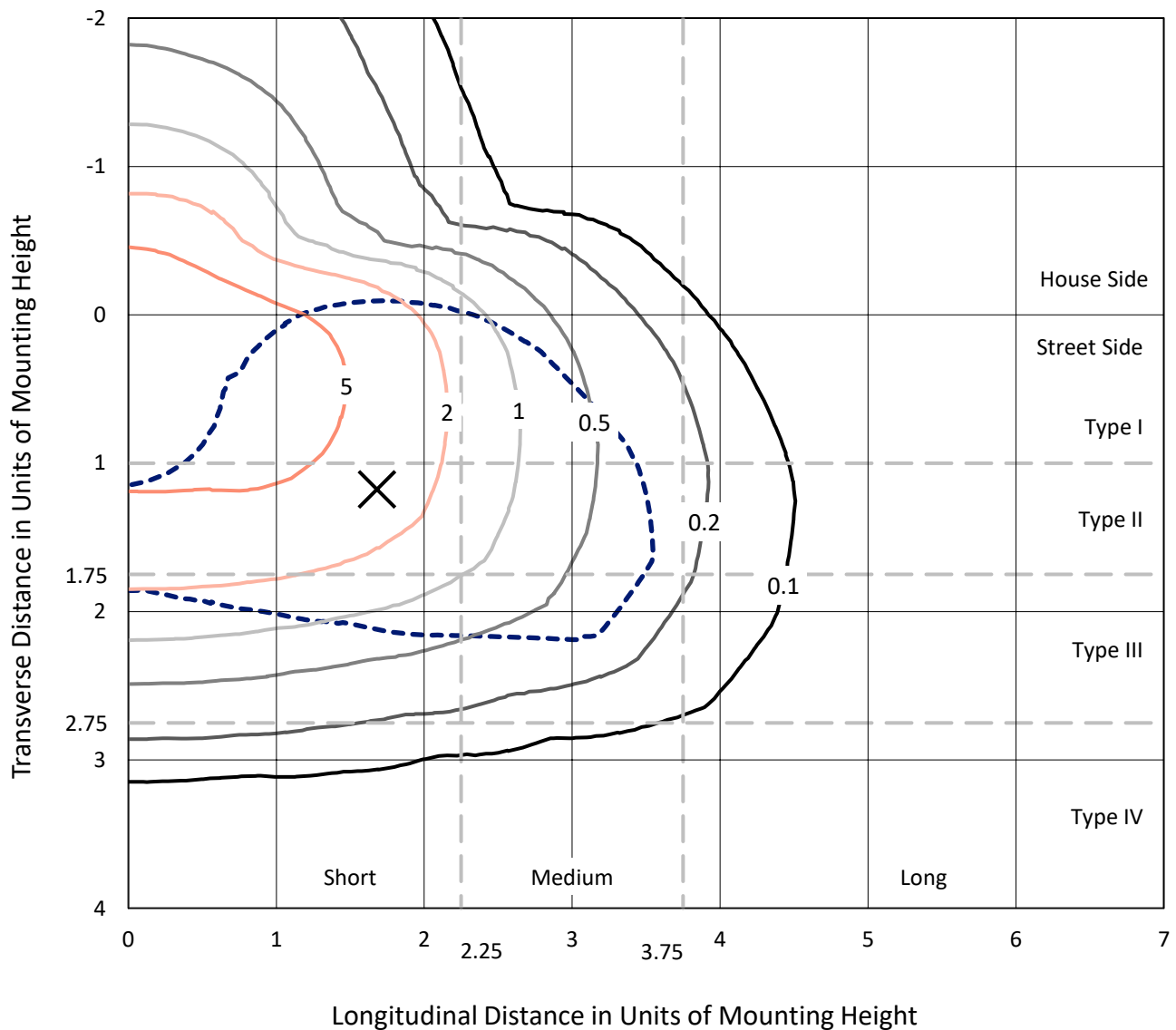


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

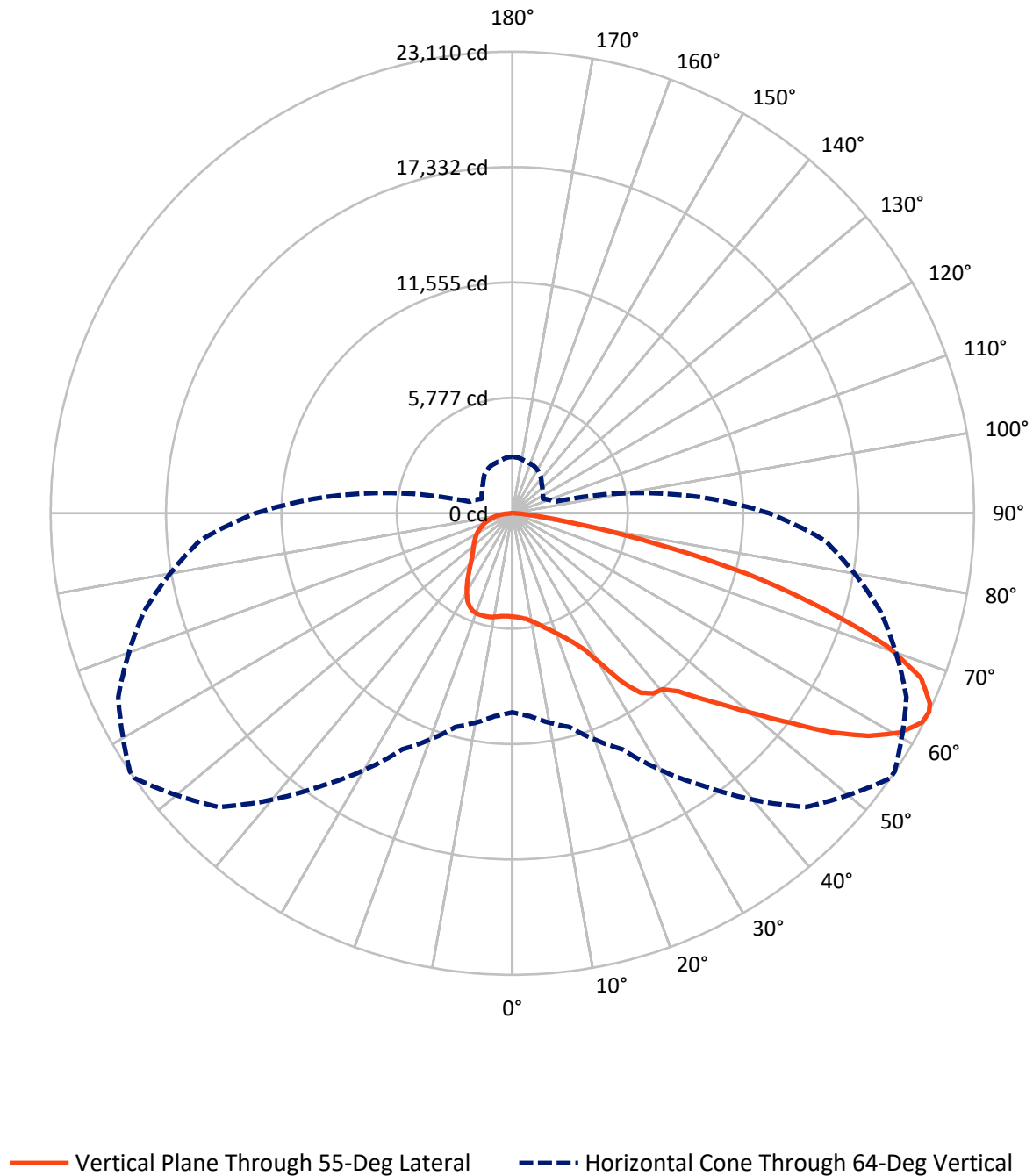


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9373.8	0.0	9373.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	29214.2	0.0	29214.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	38588.0	0.0	38588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.6	1.3
10°-20°	1589.1	4.1
20°-30°	2829.0	7.3
30°-40°	4352.7	11.3
40°-50°	6170.2	16.0
50°-60°	8931.3	23.1
60°-70°	9242.9	24.0
70°-80°	4328.5	11.2
80°-90°	640.8	1.7
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°	38588.0	100.0
0°-180°	38588.0	100.0

Coefficient of Utilization



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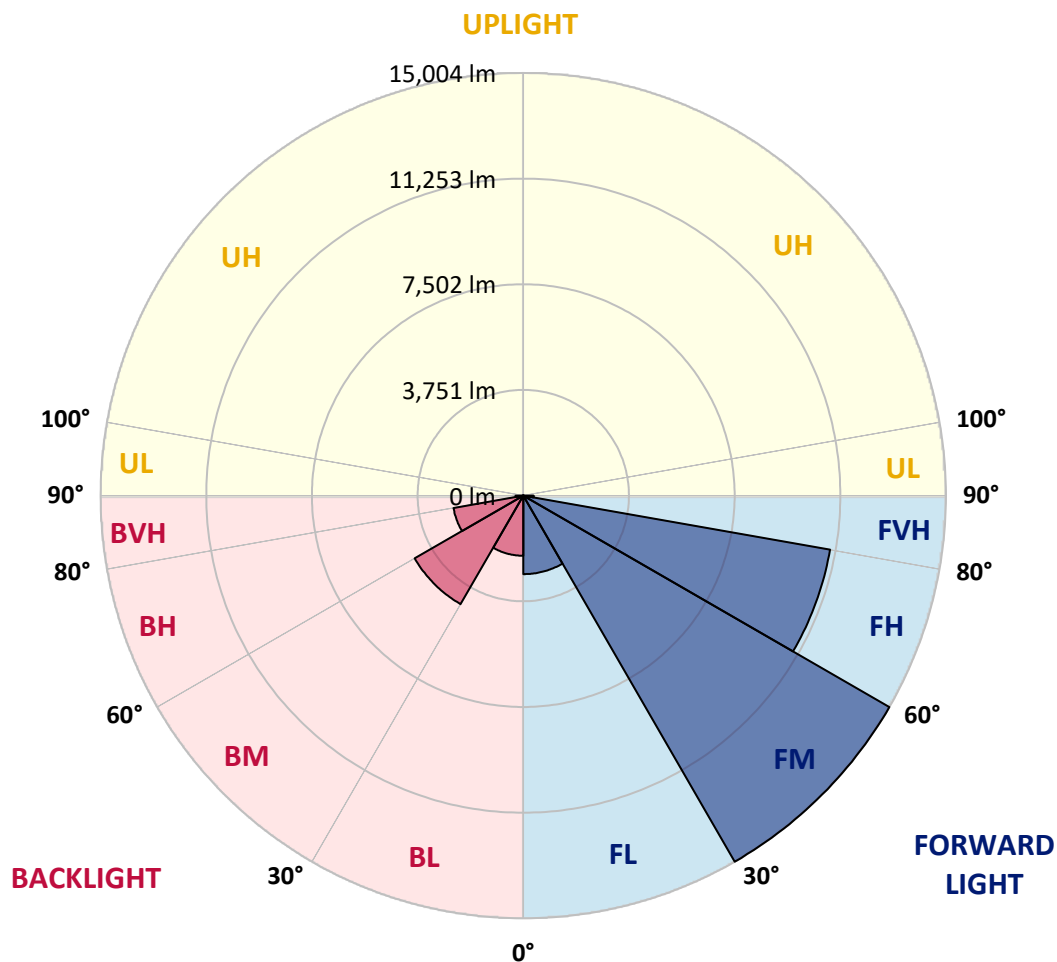
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2786.7	7.2			
FM	(30°-60°)	15004.1	38.9			
FH	(60°-80°)	11056.6	28.7			G4/12000
FVH	(80°-90°)	366.9	1.0			G3/500
BL	(0°-30°)	2135.0	5.5	B3/2500		
BM	(30°-60°)	4450.1	11.5	B3/5000		
BH	(60°-80°)	2514.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	273.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3
2.5°	5235.4	5233.3	5239.7	5233.3	5237.6	5222.5	5216.1	5220.4	5213.9	5203.2	5183.8
5°	5299.9	5297.8	5299.9	5291.3	5295.6	5287.0	5272.0	5276.3	5265.5	5241.9	5213.9
7.5°	5409.6	5401.0	5401.0	5398.9	5390.3	5377.4	5366.6	5362.3	5351.6	5321.5	5278.4
10°	5551.6	5551.6	5553.8	5536.6	5547.3	5523.6	5512.9	5510.7	5474.2	5435.5	5375.2
12.5°	5738.7	5749.5	5743.0	5734.4	5730.1	5721.5	5685.0	5693.6	5652.7	5586.0	5512.9
15°	5971.0	5988.3	5977.5	5973.2	5962.4	5930.2	5915.1	5908.7	5854.9	5758.1	5661.3
17.5°	6278.6	6257.1	6248.5	6237.8	6192.6	6168.9	6143.1	6138.8	6091.5	5977.5	5826.9
20°	6547.5	6577.6	6560.4	6549.7	6504.5	6459.3	6440.0	6433.5	6392.6	6267.9	6027.0
22.5°	6868.0	6874.4	6880.9	6855.1	6833.6	6799.2	6764.7	6754.0	6738.9	6609.9	6315.2
25°	7210.0	7235.8	7214.3	7188.5	7162.7	7160.5	7192.8	7188.5	7182.0	7057.3	6698.1
27.5°	7767.1	7790.8	7797.2	7769.2	7670.3	7678.9	7752.0	7775.7	7874.6	7668.1	7190.6
30°	8081.1	8104.8	8158.6	8264.0	8421.0	8558.6	8735.0	8788.8	8883.4	8494.1	7775.7
32.5°	8274.7	8283.3	8380.1	8575.9	9046.9	9561.0	10040.7	10060.0	10120.2	9573.9	8311.3
35°	8580.2	8586.6	8664.0	8879.1	9431.9	10288.0	11030.1	11053.7	11004.3	9909.4	8560.8
37.5°	8956.6	8973.8	9023.2	9201.8	9862.1	10896.7	11440.9	11423.7	10984.9	10176.2	9001.7
40°	9505.1	9505.1	9447.0	9687.9	10316.0	11245.2	11585.0	11554.9	11438.8	10948.4	9672.8
42.5°	9989.0	9980.4	10118.1	10281.6	10883.8	11782.9	12189.5	12238.9	12430.4	11918.4	10436.4
45°	10619.3	10658.0	10735.4	11032.2	11849.6	12701.4	13226.2	13273.5	13544.6	13060.6	11329.1
47.5°	11255.9	11268.8	11511.9	11907.7	13045.5	13946.8	14377.0	14454.4	14701.8	14396.3	12290.5
50°	11707.6	11830.2	12219.6	12843.3	14278.0	15465.4	15800.9	15893.4	16330.0	15850.4	13411.2
52.5°	12185.2	12305.6	12781.0	13731.7	15693.4	17018.3	17431.3	17493.7	17947.6	17321.6	14557.7
55°	12593.8	12705.7	13245.6	14518.9	16820.5	18603.6	19352.1	19279.0	19496.2	18455.2	15441.7
57.5°	12660.5	12750.9	13430.6	15022.3	17667.9	19963.0	21036.3	21079.3	20827.7	19302.7	16170.9
60°	12144.3	12329.3	13110.1	14968.5	18048.7	20909.4	22292.5	22322.6	21608.5	19737.1	16461.2
62.5°	11230.1	11210.8	12155.0	14103.8	17515.2	21124.5	23032.4	23000.1	21913.9	19528.5	16179.5
64°	9967.5	10199.8	11081.7	13041.2	16654.8	20793.3	23109.8	23092.6	21767.6	19094.0	15699.8
65°	9197.5	9184.6	10055.7	12172.2	15798.8	20294.2	22972.2	22948.5	21462.2	18704.7	15327.7
67.5°	6640.0	6670.1	7530.5	9393.2	12843.3	18343.3	22075.2	21987.0	20257.7	17414.1	13912.4
70°	4022.3	4039.5	4714.9	6231.3	9219.0	14828.7	19898.5	19902.8	18414.3	15486.9	11841.0
72.5°	2118.7	2163.9	2434.9	3538.3	5598.9	10404.2	16142.9	16525.8	15809.5	13217.6	9354.5
75°	1178.7	1185.2	1376.6	1744.4	2856.5	5822.6	12133.5	12243.2	12516.4	10638.6	6917.5
77.5°	899.1	912.0	972.2	1127.1	1555.1	2699.4	7343.4	7894.0	8821.1	7500.4	3947.0
80°	729.2	742.1	793.7	886.2	1034.6	1279.8	3411.4	3708.2	4721.3	3329.7	1540.1
82.5°	567.9	559.2	625.9	686.2	752.8	757.1	1400.3	1548.7	1923.0	1432.5	666.8
85°	421.6	421.6	475.4	462.5	486.1	443.1	617.3	681.9	770.0	608.7	309.7
87.5°	167.8	185.0	311.9	279.6	217.2	174.2	228.0	240.9	266.7	238.8	129.1
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°	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3	5177.3
2.5°	5185.9	5192.4	5177.3	5166.6	5162.3	5155.8	5149.4	5151.5	5160.1	5168.7	5166.6
5°	5211.8	5213.9	5188.1	5175.2	5166.6	5158.0	5158.0	5164.4	5181.6	5194.6	5194.6
7.5°	5276.3	5276.3	5239.7	5216.1	5203.2	5188.1	5183.8	5185.9	5198.9	5216.1	5218.2
10°	5377.4	5368.8	5321.5	5284.9	5261.2	5224.7	5192.4	5175.2	5181.6	5192.4	5192.4
12.5°	5500.0	5476.3	5416.1	5366.6	5308.6	5239.7	5173.0	5138.6	5136.5	5147.2	5142.9
15°	5631.2	5605.4	5521.5	5431.2	5330.1	5229.0	5149.4	5099.9	5061.2	5050.4	5074.1
17.5°	5783.9	5730.1	5614.0	5489.2	5338.7	5207.5	5082.7	4981.6	4912.8	4893.4	4899.9
20°	5968.9	5897.9	5740.9	5545.2	5332.2	5130.0	4936.4	4800.9	4689.1	4654.7	4659.0
22.5°	6224.9	6102.3	5872.1	5573.1	5278.4	4983.8	4714.9	4538.5	4403.0	4349.2	4381.5
25°	6515.2	6381.9	5996.9	5566.7	5138.6	4749.3	4452.5	4222.3	4099.7	4020.1	4037.3
27.5°	6915.3	6678.7	6130.2	5508.6	4938.6	4463.2	4119.1	3901.8	3790.0	3749.1	3768.5
30°	7427.2	7063.7	6274.3	5351.6	4622.4	4101.9	3783.5	3641.6	3574.9	3523.3	3540.5
32.5°	7797.2	7334.8	6306.6	5087.0	4280.4	3772.8	3555.5	3450.1	3377.0	3327.5	3338.3
35°	8061.8	7564.9	6291.5	4762.2	3923.3	3501.8	3374.8	3288.8	3170.5	3063.0	3043.6
37.5°	8416.7	7853.1	6181.8	4407.3	3570.6	3318.9	3228.6	3069.4	2899.5	2755.4	2748.9
40°	8960.9	8190.8	5947.4	3990.0	3269.4	3183.4	3073.7	2867.2	2684.4	2568.2	2559.6
42.5°	9522.3	8502.7	5629.0	3551.2	3022.1	3041.4	2908.1	2703.7	2591.9	2516.6	2508.0
45°	10208.4	8840.4	5284.9	3170.5	2839.3	2908.1	2764.0	2645.7	2579.0	2529.5	2516.6
47.5°	10950.5	9186.7	4897.7	2828.5	2684.4	2785.5	2703.7	2650.0	2613.4	2579.0	2563.9
50°	11750.7	9573.9	4534.2	2553.2	2544.6	2658.6	2697.3	2677.9	2656.4	2645.7	2632.8
52.5°	12628.2	9969.7	4228.8	2359.6	2422.0	2568.2	2699.4	2714.5	2714.5	2708.1	2699.4
55°	13221.9	10245.0	3919.0	2202.6	2297.2	2495.1	2695.1	2753.2	2774.7	2766.1	2757.5
57.5°	13660.7	10395.6	3529.7	2067.1	2191.8	2424.1	2671.5	2757.5	2779.0	2789.8	2785.5
60°	13751.0	10255.7	3019.9	1925.1	2077.8	2320.9	2585.4	2693.0	2721.0	2787.6	2794.1
62.5°	13344.5	9825.6	2512.3	1785.3	1938.0	2163.9	2469.3	2619.9	2675.8	2779.0	2789.8
64°	12845.5	9343.7	2230.5	1697.1	1847.7	2075.7	2411.2	2600.5	2673.6	2811.3	2819.9
65°	12479.8	8993.1	2054.2	1641.2	1789.6	2017.6	2379.0	2607.0	2693.0	2860.8	2873.7
67.5°	11133.3	7786.5	1699.3	1510.0	1651.9	1918.7	2385.4	2660.7	2688.7	2880.1	2878.0
70°	9212.5	6199.0	1423.9	1389.5	1518.6	1839.1	2359.6	2574.7	2576.8	2703.7	2673.6
72.5°	6898.1	4581.5	1234.6	1264.8	1370.2	1649.8	2228.4	2458.5	2422.0	2439.2	2409.1
75°	4738.6	3030.7	1062.6	1131.4	1215.3	1458.3	2043.4	2232.7	2174.6	2153.1	2131.6
77.5°	2529.5	1675.6	884.0	1000.2	1056.1	1260.5	1783.1	1966.0	1905.7	1821.9	1793.9
80°	1023.9	789.4	712.0	828.1	860.4	1015.3	1484.2	1598.2	1553.0	1406.7	1359.4
82.5°	514.1	473.2	559.2	651.7	653.9	724.9	1103.4	1211.0	1109.9	931.4	890.5
85°	268.9	277.5	385.0	458.2	404.4	391.5	662.5	733.5	673.2	585.1	527.0
87.5°	96.8	111.8	202.2	200.0	142.0	75.3	146.3	71.0	38.7	23.7	30.1
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)