

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: P532547

Luminaire Tested: **GALN-SA7D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24992 lumens
Efficiency: N/A
Efficacy: 57.7 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): 433
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

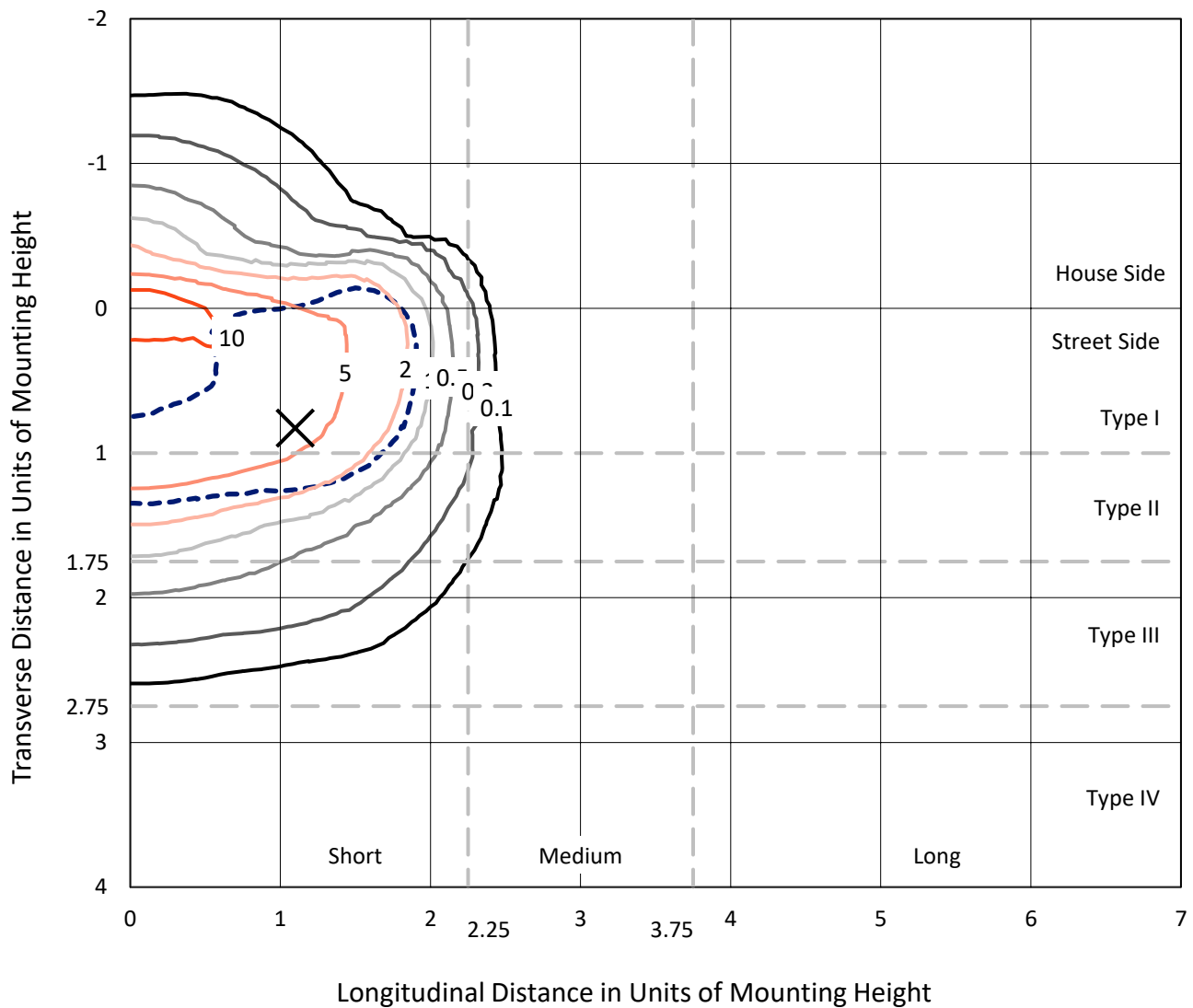


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

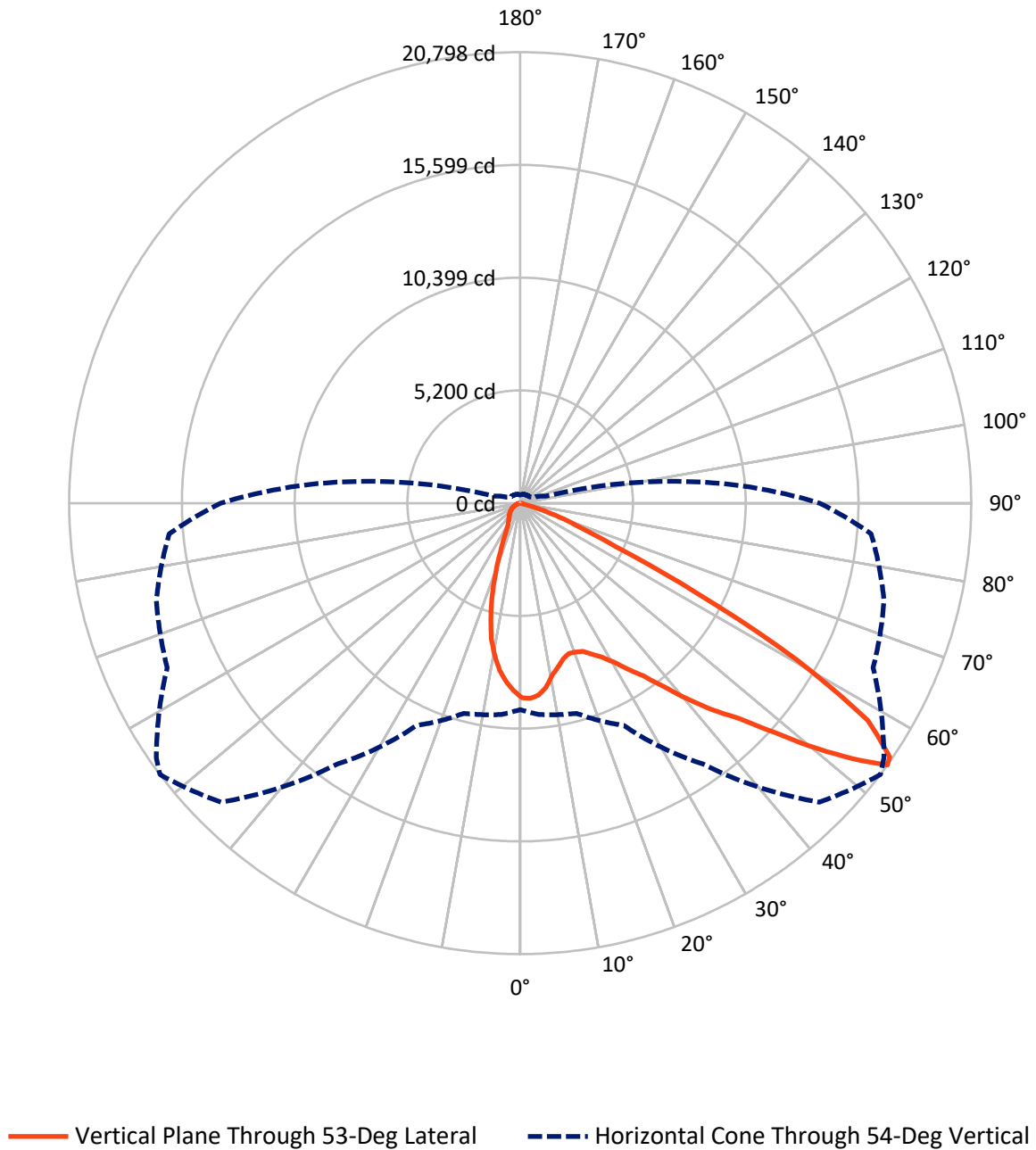


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4135.0	0.0	4135.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20857.0	0.0	20857.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	24992.0	0.0	24992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.2	3.1
10°-20°	1765.8	7.1
20°-30°	2509.6	10.0
30°-40°	3872.9	15.5
40°-50°	6072.3	24.3
50°-60°	7053.9	28.2
60°-70°	2665.4	10.7
70°-80°	253.5	1.0
80°-90°	28.5	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°	24992.0	100.0
0°-180°	24992.0	100.0

Coefficient of Utilization



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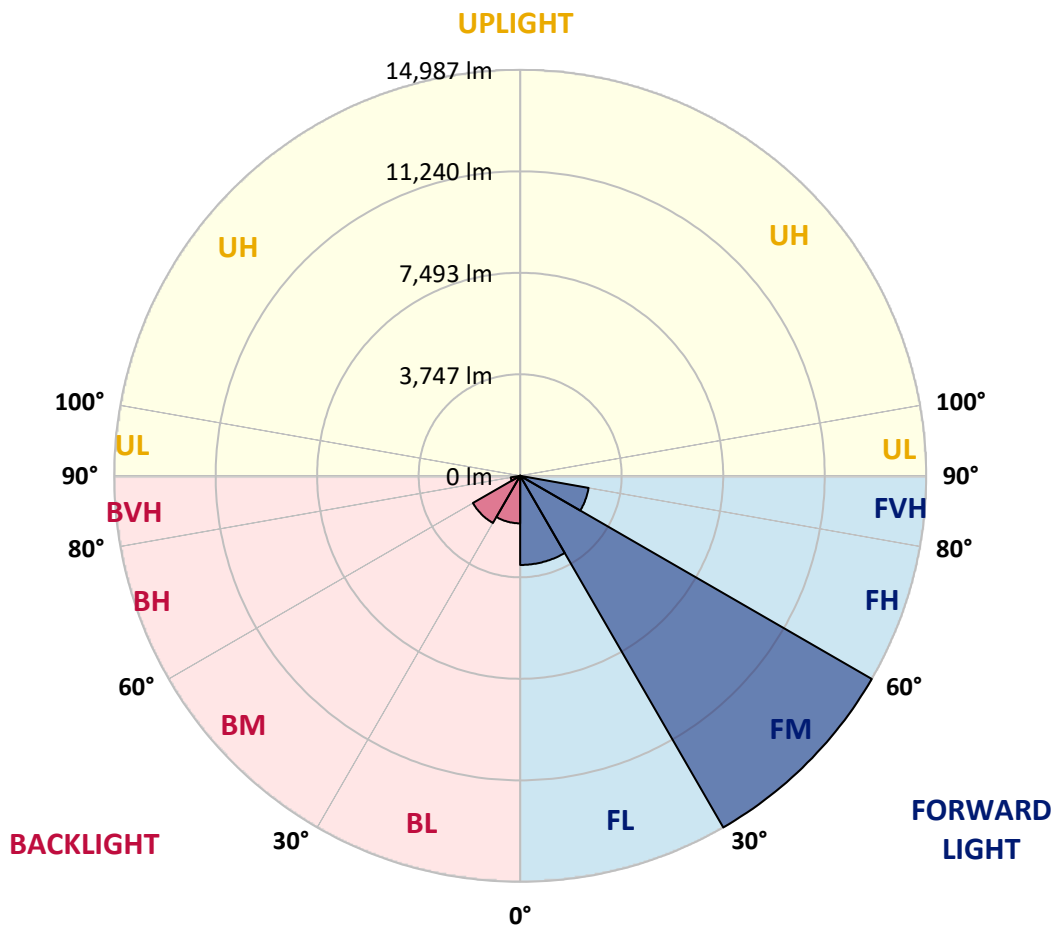
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3290.8	13.2			
FM	(30°-60°)	14986.9	60.0			
FH	(60°-80°)	2564.6	10.3			G2/5000
FVH	(80°-90°)	14.7	0.1			G1/100
BL	(0°-30°)	1754.7	7.0	B3/2500		
BM	(30°-60°)	2012.2	8.1	B2/2500		
BH	(60°-80°)	354.3	1.4	B1/500		G1/500
BVH	(80°-90°)	13.8	0.1			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°	53°	55°	65°	75°	85°
0°	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7
2.5°	8930.1	8851.0	8930.1	8939.5	8995.3	9046.5	9014.0	9088.4	9046.5	9000.0	8986.0
5°	8208.5	8315.6	8320.2	8487.8	8450.6	8757.9	8892.9	8855.6	9083.8	9069.8	9037.2
7.5°	7561.3	7519.4	7575.3	7770.8	8017.6	8371.4	8567.0	8562.3	8888.2	9121.0	9097.8
10°	6960.7	6956.0	7072.4	7226.1	7435.6	7808.1	8078.1	8213.1	8720.6	9074.5	9125.7
12.5°	6555.6	6537.0	6662.7	6788.4	7119.0	7407.6	7752.2	7817.4	8399.4	8911.5	8995.3
15°	6290.2	6332.1	6341.4	6583.5	6793.1	7174.8	7444.9	7579.9	8250.4	8781.2	9102.4
17.5°	6243.7	6299.5	6304.2	6504.4	6727.9	7049.1	7286.6	7468.2	8124.7	8846.3	9107.1
20°	6336.8	6304.2	6332.1	6457.8	6676.7	6984.0	7328.5	7389.0	8082.8	8878.9	9158.3
22.5°	6602.2	6592.8	6523.0	6625.4	6779.1	7100.4	7426.3	7519.4	8203.8	9046.5	9200.2
25°	6895.5	6946.7	6881.5	6867.6	6974.6	7291.2	7724.2	7845.3	8608.9	9349.2	9330.6
27.5°	7444.9	7393.7	7393.7	7328.5	7300.6	7454.2	8045.5	8245.7	9060.5	9740.3	9479.5
30°	7971.0	8026.9	7985.0	8008.3	7822.0	7808.1	8501.8	8748.6	9861.3	10336.2	9796.2
32.5°	8804.4	8729.9	8799.8	8739.3	8492.5	8241.1	9121.0	9377.1	10829.8	11020.7	10271.1
35°	9498.2	9465.6	9763.6	9754.3	9353.8	9107.1	9777.5	10159.3	11504.9	11840.1	10829.8
37.5°	10485.2	10424.7	10764.6	10927.6	10569.0	10201.2	10718.0	11160.4	12133.5	12496.6	11402.5
40°	11500.2	11653.9	12110.2	12380.2	11998.4	11509.6	11868.1	12003.1	12552.5	12925.0	11793.6
42.5°	12785.3	13008.8	13474.4	13707.2	13674.6	13143.8	13036.7	13032.1	12855.1	12803.9	12082.2
45°	14019.1	13935.3	14652.3	15159.8	15569.6	15415.9	14163.5	14023.8	13334.7	12985.5	12156.7
47.5°	14559.2	14531.3	15020.2	15923.4	17320.2	17511.1	15802.4	15262.3	14144.8	13749.1	12561.8
50°	13860.8	14005.1	14489.4	15490.4	17632.1	19089.5	17813.7	17087.4	15090.0	14680.3	13520.9
52.5°	11579.4	11677.2	12138.1	13409.2	16570.6	20020.7	19741.3	19322.3	16826.7	16146.9	15192.4
54°	9521.5	9782.2	10033.6	11309.3	14680.3	19503.8	20798.2	20476.9	17958.1	17366.8	16244.7
55°	8292.3	8445.9	8627.5	9898.6	13371.9	18628.5	20677.2	20705.1	18717.0	17748.5	16952.4
57.5°	6057.4	6164.5	5978.3	6541.6	9181.6	15127.2	18912.5	19666.8	19741.3	18321.2	17385.4
60°	4628.0	4674.6	4465.1	4553.5	5708.2	10382.8	14629.0	15537.0	17809.1	16011.9	14726.8
62.5°	3589.8	3599.1	3594.4	3748.1	3934.3	6108.6	9149.0	9954.5	12277.8	11369.9	10001.0
65°	2644.6	2602.7	2677.2	3142.8	3357.0	3841.2	4818.9	5405.6	6672.0	5633.7	4027.4
67.5°	1713.4	1727.4	1801.9	2337.3	2877.4	2947.2	2965.9	2919.3	2923.9	1611.0	1010.3
70°	1029.0	1052.2	1029.0	1322.3	2057.9	2113.8	1932.2	1885.7	1471.3	381.8	377.1
72.5°	609.9	577.3	516.8	568.0	856.7	1024.3	921.9	917.2	577.3	223.5	223.5
75°	256.1	232.8	190.9	172.3	228.1	218.8	218.8	195.6	153.6	149.0	139.7
77.5°	51.2	51.2	37.2	41.9	55.9	65.2	79.2	79.2	93.1	93.1	88.5
80°	0.0	4.7	14.0	27.9	41.9	60.5	69.8	69.8	79.2	79.2	65.2
82.5°	0.0	4.7	14.0	27.9	37.2	55.9	69.8	69.8	79.2	83.8	69.8
85°	0.0	4.7	14.0	23.3	37.2	46.6	46.6	41.9	32.6	27.9	18.6
87.5°	0.0	0.0	4.7	9.3	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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°	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7	8976.7
2.5°	9018.6	9014.0	8902.2	8720.6	8678.7	8525.1	8506.5	8413.3	8464.5	8292.3	8273.7
5°	8944.1	8888.2	8753.2	8636.8	8296.9	8054.8	7863.9	7631.1	7496.1	7519.4	7430.9
7.5°	9051.2	8906.9	8669.4	8264.3	7850.0	7426.3	7198.1	6723.2	6550.9	6294.9	6257.6
10°	8939.5	8832.4	8464.5	7794.1	7221.4	6611.5	6076.0	5549.9	5149.5	4977.2	4940.0
12.5°	8930.1	8743.9	8129.3	7384.4	6555.6	5680.3	4902.7	4246.2	3850.5	3627.0	3575.8
15°	8785.8	8562.3	7752.2	6751.2	5605.8	4516.3	3668.9	3035.7	2733.1	2602.7	2639.9
17.5°	8799.8	8464.5	7375.1	6080.7	4669.9	3315.0	2504.9	2179.0	2099.8	2132.4	2132.4
20°	8785.8	8245.7	6918.8	5307.8	3575.8	2300.0	1839.1	1722.7	1773.9	1876.4	1853.1
22.5°	8711.3	8143.3	6499.7	4493.0	2630.6	1704.1	1475.9	1480.6	1559.7	1685.5	1713.4
25°	8767.2	7915.1	5969.0	3668.9	1918.3	1359.5	1280.4	1313.0	1396.8	1489.9	1508.5
27.5°	8725.3	7752.2	5414.9	2849.5	1401.4	1168.6	1164.0	1201.2	1238.5	1308.3	1308.3
30°	8771.8	7603.2	4870.1	2118.5	1154.7	1070.9	1052.2	1080.2	1117.4	1131.4	1126.7
32.5°	8944.1	7491.5	4241.6	1583.0	1019.7	977.8	977.8	977.8	973.1	991.7	996.4
35°	9321.2	7510.1	3687.5	1224.5	931.2	898.6	884.6	866.0	856.7	866.0	870.7
37.5°	9731.0	7500.8	3114.8	1042.9	866.0	838.1	805.5	777.5	772.9	782.2	768.2
40°	9912.6	7589.2	2584.1	935.8	805.5	772.9	721.7	698.4	703.1	712.4	703.1
42.5°	10159.3	7617.2	2239.5	852.0	749.6	698.4	665.8	637.9	633.2	647.2	642.5
45°	10154.7	7458.9	1876.4	805.5	698.4	642.5	600.6	577.3	577.3	586.7	591.3
47.5°	10452.6	7435.6	1611.0	763.6	661.1	605.3	554.1	535.4	530.8	530.8	521.5
50°	11146.4	7761.5	1406.1	717.0	614.6	563.4	521.5	498.2	479.6	470.3	465.6
52.5°	12501.3	8776.5	1247.8	661.1	563.4	521.5	484.2	465.6	442.3	419.0	414.4
54°	13814.3	9824.1	1238.5	614.6	521.5	493.5	460.9	451.6	423.7	391.1	381.8
55°	14405.6	10434.0	1271.1	577.3	493.5	474.9	447.0	437.7	409.7	372.5	367.8
57.5°	14894.4	10671.5	1252.5	479.6	447.0	442.3	419.0	405.1	372.5	321.3	311.9
60°	11989.1	8068.8	898.6	423.7	409.7	400.4	381.8	372.5	330.6	274.7	270.0
62.5°	7575.3	4642.0	572.7	372.5	358.5	344.5	321.3	311.9	274.7	218.8	204.9
65°	3226.6	1922.9	386.4	330.6	307.3	284.0	265.4	251.4	218.8	163.0	158.3
67.5°	838.1	684.4	321.3	288.7	256.1	223.5	209.5	186.2	149.0	111.7	107.1
70°	377.1	344.5	270.0	242.1	204.9	172.3	153.6	130.4	97.8	74.5	69.8
72.5°	223.5	218.8	204.9	181.6	153.6	130.4	111.7	88.5	65.2	41.9	41.9
75°	139.7	135.0	139.7	125.7	107.1	97.8	83.8	60.5	37.2	18.6	18.6
77.5°	83.8	83.8	83.8	79.2	74.5	74.5	60.5	37.2	18.6	4.7	4.7
80°	65.2	65.2	69.8	65.2	65.2	65.2	51.2	27.9	9.3	0.0	0.0
82.5°	65.2	69.8	79.2	74.5	65.2	55.9	46.6	27.9	9.3	0.0	0.0
85°	18.6	14.0	23.3	32.6	46.6	41.9	32.6	23.3	9.3	0.0	0.0
87.5°	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	4.7	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)