

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: P456869

Luminaire Tested: **GALN-SA8A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29085 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

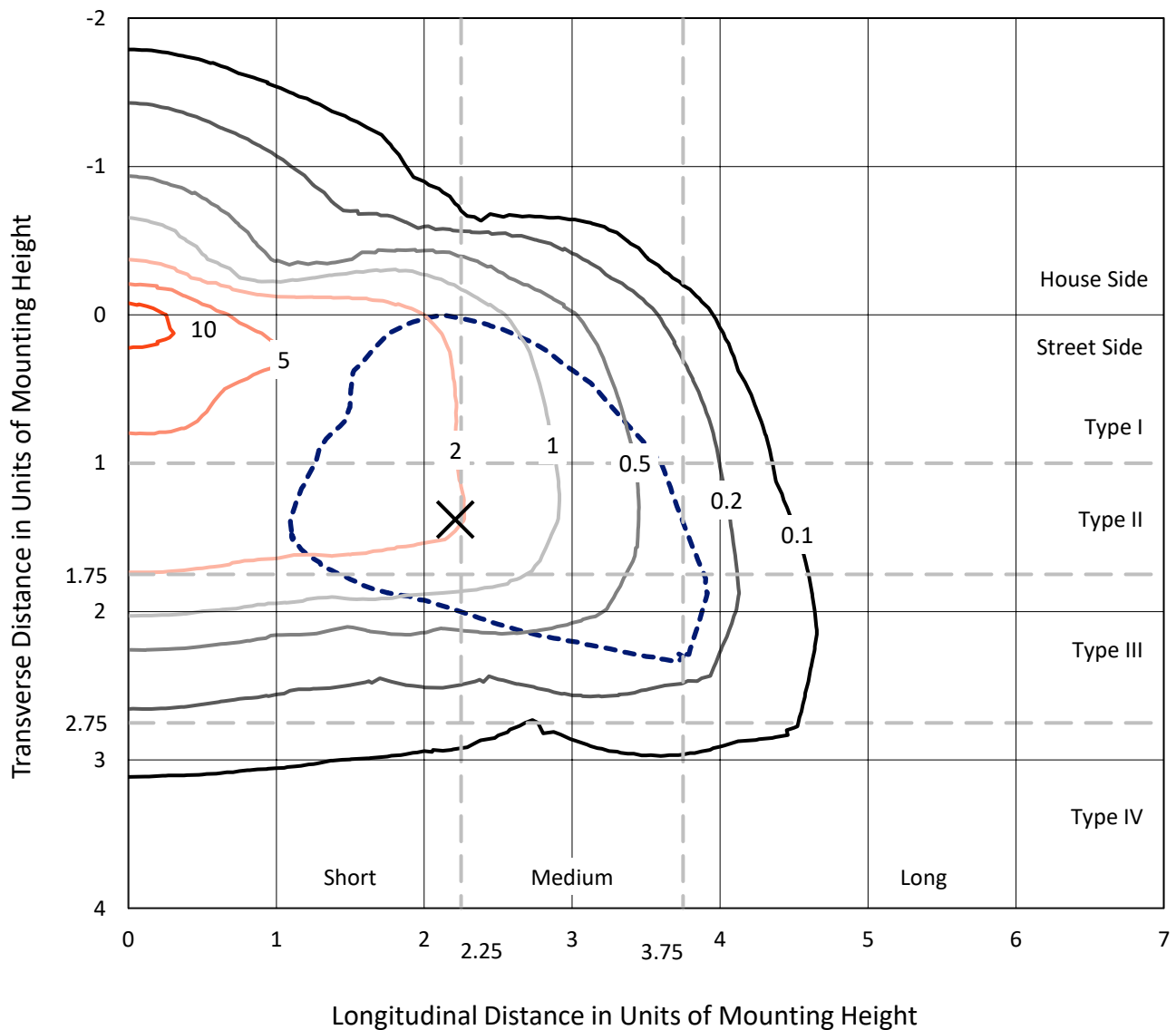


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

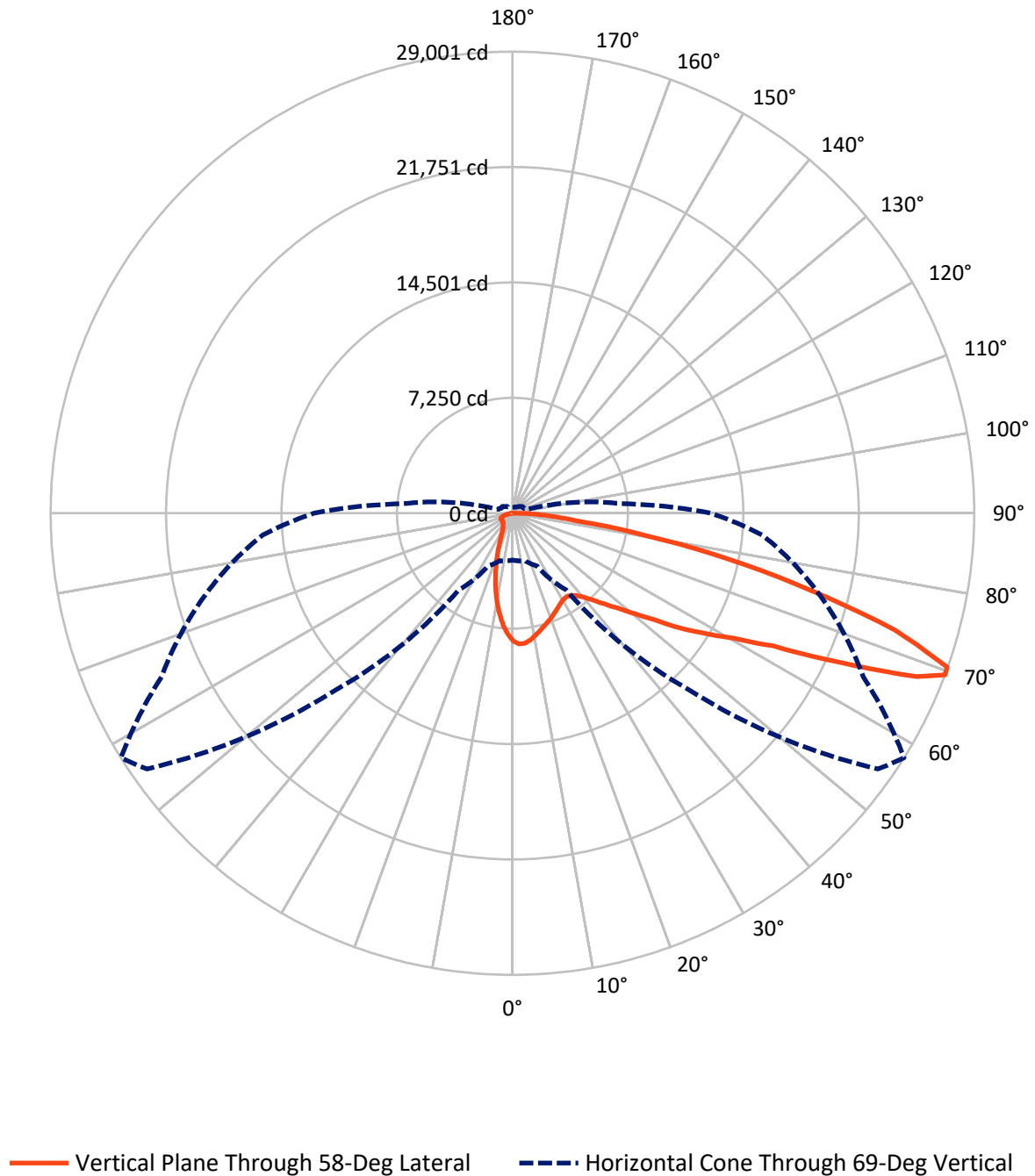


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4262.4	0.0	4262.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24822.6	0.0	24822.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	29085.0	0.0	29085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.6	2.3
10°-20°	1498.8	5.2
20°-30°	1936.5	6.7
30°-40°	2515.1	8.6
40°-50°	3656.6	12.6
50°-60°	5834.7	20.1
60°-70°	7794.5	26.8
70°-80°	4493.2	15.4
80°-90°	673.0	2.3
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°	29085.0	100.0
0°-180°	29085.0	100.0

Coefficient of Utilization



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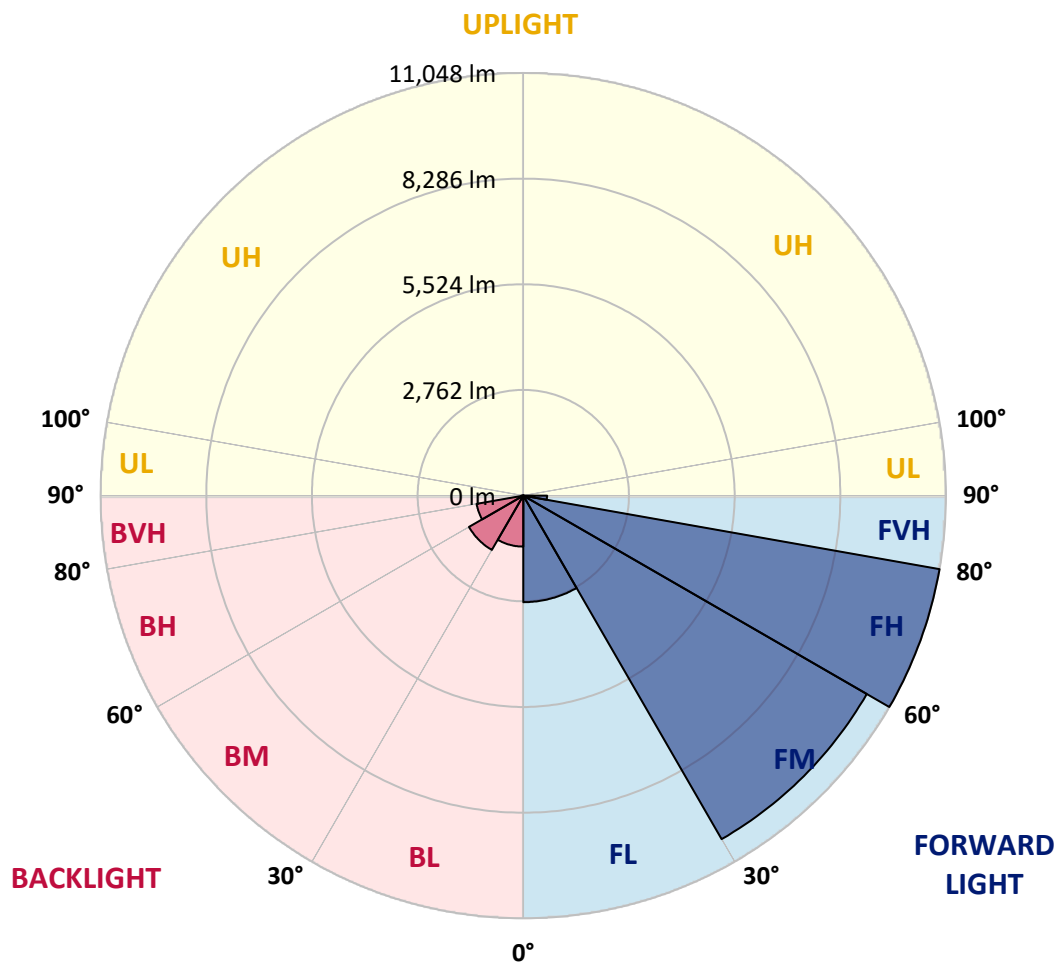
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2785.6	9.6			
FM	(30°-60°)	10367.3	35.6			
FH	(60°-80°)	11048.3	38.0			G4/12000
FVH	(80°-90°)	621.4	2.1			G4/750
BL	(0°-30°)	1332.3	4.6	B3/2500		
BM	(30°-60°)	1639.2	5.6	B2/2500		
BH	(60°-80°)	1239.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	51.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4
2.5°	8335.9	8358.6	8352.1	8344.0	8331.0	8295.3	8236.9	8227.2	8189.9	8110.4	8011.4
5°	8207.7	8227.2	8228.8	8240.2	8256.4	8249.9	8207.7	8202.8	8147.7	8040.6	7875.2
7.5°	7768.1	7794.1	7850.9	7914.1	7970.9	8024.4	8037.4	8045.5	8011.4	7888.2	7667.6
10°	7273.4	7299.3	7325.3	7419.4	7558.9	7691.9	7802.2	7816.8	7824.9	7711.4	7442.1
12.5°	6725.1	6778.7	6833.8	6973.3	7159.8	7369.1	7563.7	7594.6	7649.7	7563.7	7247.4
15°	6259.6	6314.7	6394.2	6519.1	6744.6	7046.3	7320.4	7370.7	7479.4	7435.6	7065.8
17.5°	5936.8	5956.3	6011.4	6154.2	6397.5	6715.4	7082.0	7182.6	7356.1	7344.8	6910.0
20°	5682.1	5706.5	5740.5	5828.1	6081.2	6416.9	6859.8	6989.5	7224.7	7263.7	6756.0
22.5°	5575.1	5592.9	5588.1	5635.1	5807.0	6144.4	6634.3	6788.4	7107.9	7208.5	6613.2
25°	5581.6	5597.8	5573.5	5562.1	5664.3	5904.4	6399.1	6595.4	7013.9	7171.2	6483.4
27.5°	5690.2	5701.6	5656.2	5610.8	5618.9	5755.1	6204.4	6421.8	6934.4	7187.4	6374.8
30°	5836.2	5857.3	5828.1	5773.0	5713.0	5719.4	6079.5	6293.7	6897.1	7244.2	6322.9
32.5°	6024.4	6043.9	6030.9	5987.1	5909.2	5823.3	6048.7	6246.6	6900.3	7359.4	6311.5
35°	6222.3	6261.2	6282.3	6279.1	6215.8	6066.6	6170.4	6334.2	6978.2	7552.4	6378.0
37.5°	6446.1	6478.6	6569.4	6627.8	6569.4	6395.8	6444.5	6558.1	7150.1	7831.4	6524.0
40°	6663.5	6712.2	6845.2	7026.8	7004.1	6851.7	6863.0	6937.6	7453.4	8246.6	6809.5
42.5°	6890.6	6949.0	7180.9	7450.2	7503.7	7385.3	7416.1	7482.6	7884.9	8822.5	7299.3
45°	7182.6	7252.3	7537.8	7873.6	8084.4	8011.4	8099.0	8131.5	8462.4	9571.9	7944.9
47.5°	7558.9	7640.0	7992.0	8410.5	8708.9	8775.4	8927.9	8908.4	9177.7	10459.2	8781.9
50°	8193.1	8238.5	8571.1	8997.7	9408.0	9708.1	9873.6	9904.4	10065.0	11322.1	9717.9
52.5°	8947.4	8987.9	9228.0	9601.1	10115.3	10751.1	11159.9	11059.3	11098.3	12373.2	10812.8
55°	9795.7	9863.8	10016.3	10264.5	10931.2	11867.1	12687.9	12712.2	12280.7	13378.9	11862.2
57.5°	10452.7	10567.8	10829.0	11182.6	12027.7	13108.0	14211.0	14227.2	13675.7	14452.7	13020.4
60°	10121.8	10258.0	10854.9	11716.3	13466.5	15273.5	16031.0	15938.5	15033.4	15675.8	14433.2
62.5°	8694.3	8718.7	9586.5	10932.8	13909.3	18170.5	18739.9	18348.9	16845.3	17226.5	15868.8
65°	5627.0	5785.9	6473.7	8360.2	12454.3	19778.0	23486.1	22582.6	19385.4	18986.4	17070.7
67.5°	3552.3	3511.8	3797.3	4773.8	8566.2	18361.9	27536.4	27393.6	22707.5	20097.5	16783.6
69°	2945.7	2991.1	3088.4	3659.4	5894.6	15677.4	28014.9	29001.1	24318.2	20009.9	15740.6
70°	2671.6	2692.6	2794.8	3244.2	4548.3	13130.7	27229.8	28957.3	24950.8	19643.4	14984.7
72.5°	2120.1	2118.4	2293.6	2699.1	3399.9	7495.6	22358.7	25140.6	24243.6	17936.9	12381.3
75°	1610.7	1636.7	1829.7	2283.9	3132.2	4095.7	15602.8	19361.1	19362.7	14167.2	7726.0
77.5°	1161.4	1177.6	1403.1	1917.3	2950.6	3320.4	10392.6	13886.6	13054.5	6491.6	2428.2
80°	760.8	770.5	942.4	1518.3	2660.2	3132.2	6162.3	8499.7	6157.4	1722.6	802.9
82.5°	416.9	465.5	575.8	983.0	2134.7	2893.8	3745.4	4301.7	2309.8	767.2	418.5
85°	209.2	222.2	324.4	574.2	1395.0	2394.2	2608.3	2467.2	1192.2	381.2	217.4
87.5°	61.6	77.9	134.6	222.2	566.1	1247.4	1451.8	1302.5	459.0	137.9	45.4
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°	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4	8037.4
2.5°	7970.9	7941.7	7811.9	7695.1	7588.1	7474.5	7378.8	7294.5	7302.6	7304.2	7218.2
5°	7789.2	7722.7	7476.2	7245.8	7051.2	6804.6	6593.7	6457.5	6389.4	6298.5	6331.0
7.5°	7542.7	7414.5	7072.3	6689.4	6331.0	6011.4	5664.3	5425.8	5273.4	5125.8	5145.2
10°	7288.0	7082.0	6584.0	6077.9	5614.0	5103.1	4660.2	4280.7	3998.4	3893.0	3823.2
12.5°	7026.8	6756.0	6123.3	5450.2	4809.5	4197.9	3570.2	3163.1	2851.6	2686.2	2707.2
15°	6788.4	6459.1	5643.2	4822.4	3990.3	3262.0	2635.9	2248.2	2030.8	1985.4	2011.4
17.5°	6567.8	6136.3	5193.9	4212.5	3240.9	2446.1	1980.6	1761.6	1674.0	1649.7	1648.0
20°	6340.7	5862.2	4689.4	3560.5	2525.6	1896.2	1625.3	1523.1	1506.9	1516.6	1518.3
22.5°	6110.4	5523.2	4170.4	2913.3	2011.4	1550.7	1420.9	1393.4	1406.3	1429.0	1432.3
25°	5897.9	5224.7	3670.8	2345.5	1605.9	1362.5	1299.3	1299.3	1328.5	1362.5	1364.2
27.5°	5722.7	4936.0	3172.8	1862.1	1344.7	1226.3	1205.2	1216.6	1257.1	1283.1	1284.7
30°	5578.3	4666.7	2702.4	1492.3	1182.5	1117.6	1112.7	1132.2	1161.4	1185.7	1187.4
32.5°	5469.6	4429.9	2262.8	1253.9	1070.6	1034.9	1033.3	1047.9	1064.1	1070.6	1077.1
35°	5427.5	4233.6	1860.5	1103.0	996.0	973.2	973.2	971.6	978.1	981.4	984.6
37.5°	5461.5	4082.8	1549.1	1005.7	940.8	924.6	914.9	905.1	901.9	901.9	903.5
40°	5605.9	4003.3	1317.1	942.4	901.9	877.5	859.7	848.3	837.0	840.2	843.5
42.5°	5912.5	4017.9	1159.8	900.3	867.8	833.7	807.8	794.8	786.7	796.4	794.8
45°	6400.7	4163.9	1059.2	871.1	833.7	790.0	765.6	752.6	752.6	767.2	772.1
47.5°	7083.6	4442.9	1005.7	848.3	807.8	755.9	731.6	721.8	725.1	749.4	751.0
50°	7917.4	4927.9	996.0	837.0	794.8	731.6	704.0	694.2	702.4	728.3	731.6
52.5°	8837.1	5552.4	1043.0	838.6	783.5	717.0	681.3	666.7	674.8	695.9	702.4
55°	9927.1	6334.2	1164.7	845.1	767.2	708.8	665.1	632.6	642.3	656.9	658.6
57.5°	11039.9	7320.4	1378.8	846.7	754.3	694.2	637.5	595.3	595.3	605.0	609.9
60°	12399.2	8394.2	1661.0	848.3	755.9	673.2	600.2	553.1	546.6	551.5	553.1
62.5°	13748.7	9292.9	1708.0	843.5	772.1	652.1	559.6	511.0	499.6	498.0	494.7
65°	14344.0	9125.8	1399.9	820.8	790.0	639.1	527.2	470.4	450.9	444.4	444.4
67.5°	13374.0	7719.5	1052.7	790.0	778.6	626.1	496.4	436.3	413.6	400.7	400.7
69°	12462.4	6866.3	945.7	768.9	749.4	605.0	476.9	418.5	390.9	376.3	371.5
70°	11758.4	6279.1	900.3	751.0	721.8	580.7	462.3	405.5	374.7	358.5	355.2
72.5°	9383.7	4926.2	788.3	682.9	614.8	488.2	410.4	365.0	335.8	317.9	313.1
75°	5408.0	2669.9	653.7	593.7	494.7	379.6	347.1	317.9	295.2	279.0	274.1
77.5°	1664.3	1031.6	473.6	468.8	363.3	293.6	277.4	266.0	249.8	232.0	228.7
80°	700.7	525.6	321.2	316.3	241.7	204.4	199.5	197.9	191.4	176.8	171.9
82.5°	384.4	296.8	223.8	194.6	146.0	118.4	123.3	124.9	120.0	105.4	95.7
85°	188.2	162.2	108.7	87.6	66.5	42.2	40.6	48.7	45.4	32.4	35.7
87.5°	37.3	45.4	29.2	13.0	6.5	0.0	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)