

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: P455477

Luminaire Tested: **GALN-SA6C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455477
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-SA6C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 32836 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321
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

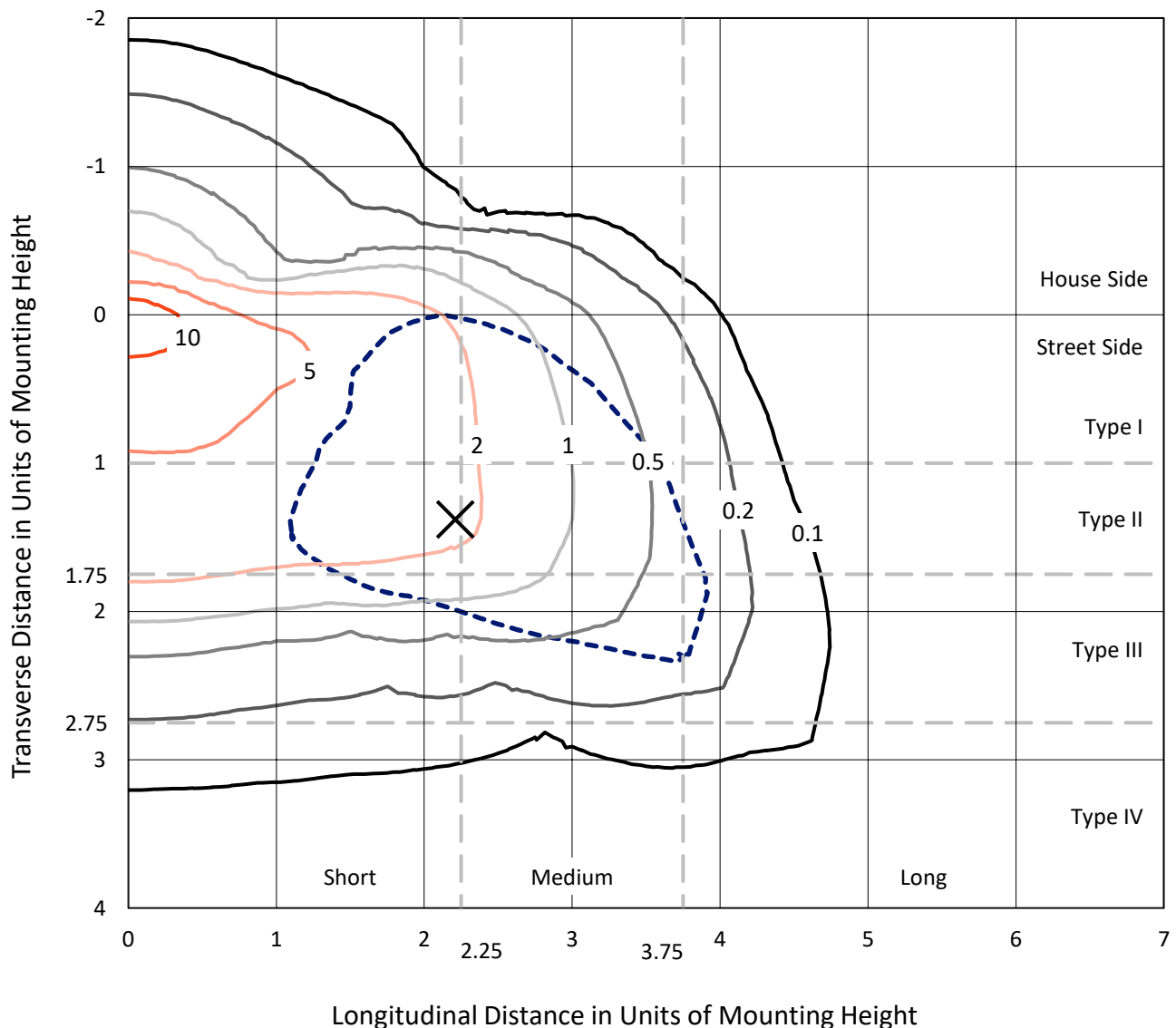


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

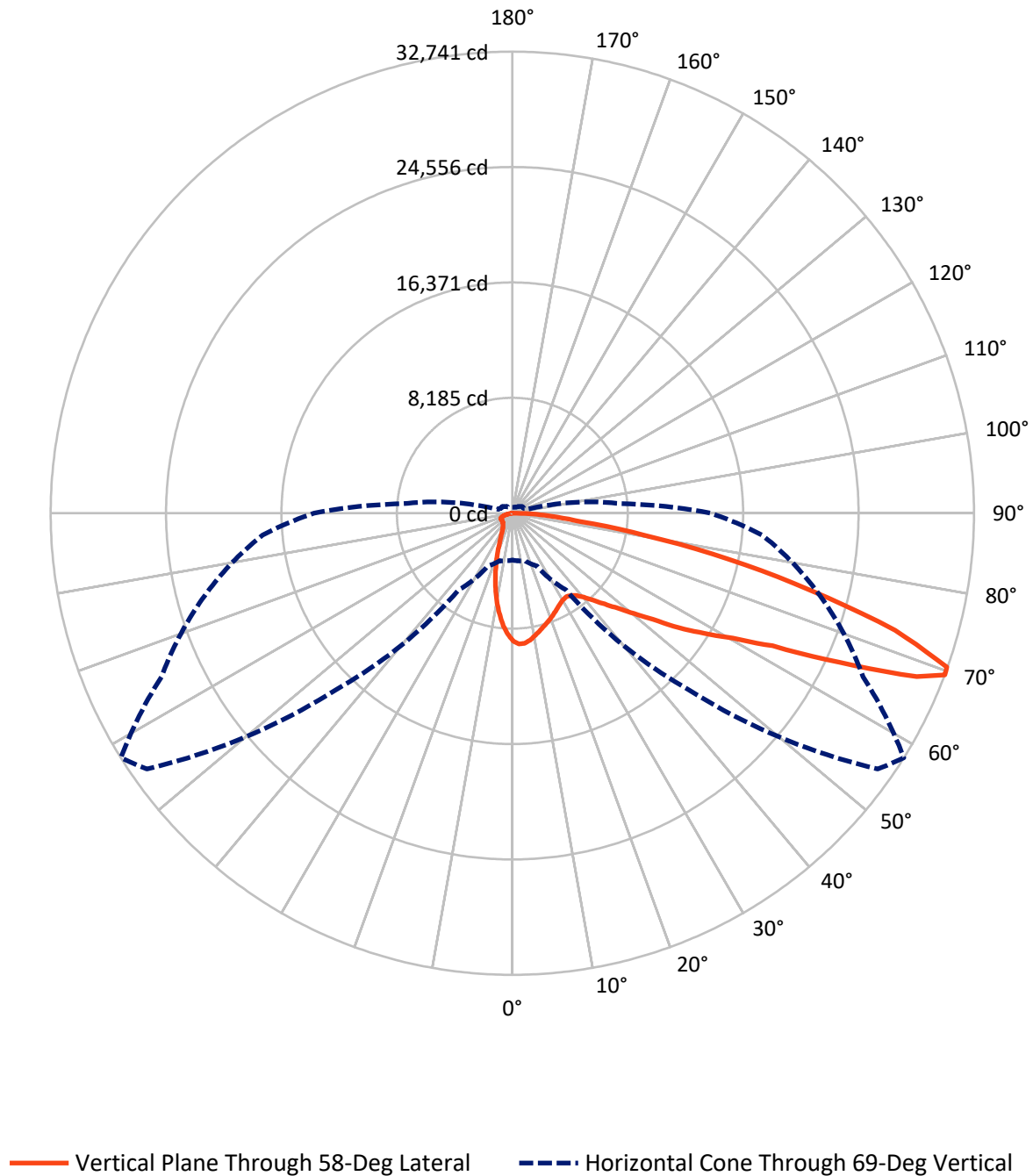


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4812.1	0.0	4812.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28023.9	0.0	28023.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	32836.0	0.0	32836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.6	2.3
10°-20°	1692.1	5.2
20°-30°	2186.2	6.7
30°-40°	2839.5	8.6
40°-50°	4128.2	12.6
50°-60°	6587.2	20.1
60°-70°	8799.7	26.8
70°-80°	5072.7	15.4
80°-90°	759.8	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°	32836.0	100.0
0°-180°	32836.0	100.0

Coefficient of Utilization



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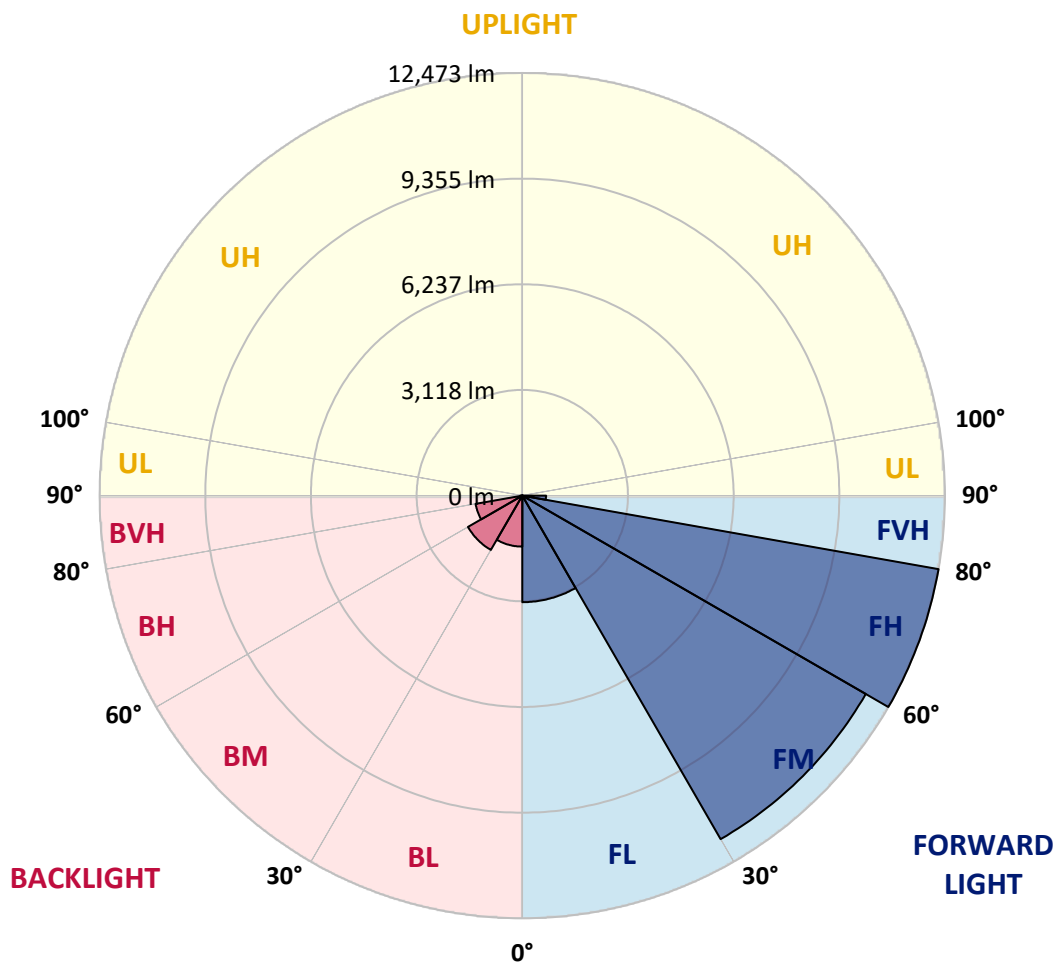
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3144.8	9.6			
FM	(30°-60°)	11704.3	35.6			
FH	(60°-80°)	12473.1	38.0			G5
FVH	(80°-90°)	701.6	2.1			G4/750
BL	(0°-30°)	1504.1	4.6	B3/2500		
BM	(30°-60°)	1850.6	5.6	B2/2500		
BH	(60°-80°)	1399.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	58.2	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9
2.5°	9410.9	9436.5	9429.2	9420.1	9405.4	9365.1	9299.2	9288.2	9246.1	9156.4	9044.6
5°	9266.2	9288.2	9290.0	9302.9	9321.2	9313.8	9266.2	9260.7	9198.5	9077.6	8890.8
7.5°	8770.0	8799.3	8863.4	8934.8	8998.9	9059.3	9073.9	9083.1	9044.6	8905.5	8656.4
10°	8211.4	8240.7	8270.0	8376.2	8533.7	8683.9	8808.4	8824.9	8834.1	8705.9	8401.9
12.5°	7592.4	7652.9	7715.1	7872.6	8083.2	8319.5	8539.2	8574.0	8636.3	8539.2	8182.1
15°	7066.9	7129.1	7218.9	7359.9	7614.4	7955.0	8264.5	8321.3	8444.0	8394.5	7977.0
17.5°	6702.5	6724.4	6786.7	6947.8	7222.5	7581.5	7995.3	8108.9	8304.8	8292.0	7801.2
20°	6414.9	6442.4	6480.9	6579.8	6865.4	7244.5	7744.4	7890.9	8156.5	8200.4	7627.2
22.5°	6294.1	6314.2	6308.7	6361.8	6556.0	6936.9	7489.9	7663.9	8024.6	8138.2	7466.1
25°	6301.4	6319.7	6292.2	6279.4	6394.8	6665.8	7224.4	7445.9	7918.4	8096.0	7319.6
27.5°	6424.1	6436.9	6385.6	6334.4	6343.5	6497.3	7004.6	7250.0	7828.7	8114.4	7196.9
30°	6588.9	6612.7	6579.8	6517.5	6449.7	6457.1	6863.6	7105.3	7786.6	8178.5	7138.3
32.5°	6801.3	6823.3	6808.7	6759.2	6671.3	6574.3	6828.8	7052.2	7790.2	8308.5	7125.5
35°	7024.8	7068.7	7092.5	7088.9	7017.4	6849.0	6966.2	7151.1	7878.1	8526.4	7200.6
37.5°	7277.5	7314.1	7416.6	7482.6	7416.6	7220.7	7275.6	7403.8	8072.2	8841.4	7365.4
40°	7522.9	7577.8	7728.0	7933.1	7907.4	7735.3	7748.1	7832.3	8414.7	9310.2	7687.7
42.5°	7779.2	7845.2	8107.0	8411.0	8471.5	8337.8	8372.6	8447.7	8901.8	9960.3	8240.7
45°	8108.9	8187.6	8509.9	8889.0	9127.1	9044.6	9143.5	9180.2	9553.7	10806.3	8969.6
47.5°	8533.7	8625.3	9022.7	9495.1	9832.1	9907.2	10079.3	10057.3	10361.3	11808.0	9914.5
50°	9249.8	9301.0	9676.4	10158.1	10621.4	10960.2	11146.9	11181.7	11363.0	12782.3	10971.1
52.5°	10101.3	10147.1	10418.1	10839.3	11419.8	12137.7	12599.1	12485.6	12529.6	13968.9	12207.3
55°	11059.0	11136.0	11308.1	11588.3	12340.9	13397.6	14324.2	14351.7	13864.6	15104.3	13392.1
57.5°	11800.7	11930.7	12225.6	12624.8	13578.9	14798.5	16043.8	16062.1	15439.4	16316.6	14699.6
60°	11427.1	11581.0	12254.9	13227.3	15203.2	17243.2	18098.5	17994.1	16972.2	17697.4	16294.6
62.5°	9815.6	9843.1	10822.8	12342.8	15703.1	20513.9	21156.7	20715.3	19017.7	19448.1	17915.3
65°	6352.7	6532.1	7308.6	9438.4	14060.5	22328.7	26515.0	25495.0	21885.5	21435.0	19272.3
67.5°	4010.5	3964.7	4287.0	5389.4	9670.9	20730.0	31087.7	30926.5	25636.0	22689.4	18948.2
69°	3325.6	3376.9	3486.7	4131.3	6654.8	17699.2	31627.9	32741.3	27454.4	22590.6	17770.7
70°	3016.1	3039.9	3155.3	3662.5	5134.9	14824.1	30741.5	32691.9	28168.6	22176.7	16917.3
72.5°	2393.5	2391.6	2589.4	3047.2	3838.3	8462.3	25242.2	28382.9	27370.2	20250.2	13978.1
75°	1818.5	1847.8	2065.7	2578.4	3536.2	4624.0	17615.0	21858.1	21859.9	15994.3	8722.3
77.5°	1311.2	1329.5	1584.0	2164.6	3331.1	3748.6	11733.0	15677.5	14738.1	7328.7	2741.4
80°	858.9	869.9	1064.0	1714.1	3003.3	3536.2	6957.0	9595.9	6951.5	1944.8	906.5
82.5°	470.6	525.6	650.1	1109.8	2410.0	3267.0	4228.4	4856.5	2607.7	866.2	472.5
85°	236.2	250.9	366.3	648.3	1574.9	2703.0	2944.7	2785.4	1346.0	430.3	245.4
87.5°	69.6	87.9	152.0	250.9	639.1	1408.2	1639.0	1470.5	518.2	155.7	51.3
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°	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9	9073.9
2.5°	8998.9	8965.9	8819.4	8687.5	8566.7	8438.5	8330.5	8235.2	8244.4	8246.2	8149.2
5°	8793.8	8718.7	8440.3	8180.3	7960.5	7682.2	7444.1	7290.3	7213.4	7110.8	7147.5
7.5°	8515.4	8370.7	7984.3	7552.2	7147.5	6786.7	6394.8	6125.6	5953.5	5786.8	5808.8
10°	8227.9	7995.3	7433.1	6861.8	6338.0	5761.2	5261.2	4832.7	4514.1	4395.1	4316.3
12.5°	7933.1	7627.2	6913.0	6153.1	5429.7	4739.3	4030.6	3571.0	3219.4	3032.6	3056.4
15°	7663.9	7292.1	6371.0	5444.4	4504.9	3682.7	2975.8	2538.1	2292.8	2241.5	2270.8
17.5°	7414.8	6927.7	5863.7	4755.8	3658.9	2761.6	2236.0	1988.8	1889.9	1862.4	1860.6
20°	7158.4	6618.2	5294.2	4019.6	2851.3	2140.8	1834.9	1719.6	1701.3	1712.2	1714.1
22.5°	6898.4	6235.5	4708.2	3289.0	2270.8	1750.7	1604.2	1573.1	1587.7	1613.3	1617.0
25°	6658.5	5898.5	4144.2	2648.0	1813.0	1538.3	1466.8	1466.8	1499.8	1538.3	1540.1
27.5°	6460.7	5572.6	3582.0	2102.3	1518.1	1384.4	1360.6	1373.5	1419.2	1448.5	1450.4
30°	6297.7	5268.6	3050.9	1684.8	1335.0	1261.7	1256.3	1278.2	1311.2	1338.7	1340.5
32.5°	6175.0	5001.2	2554.6	1415.6	1208.6	1168.4	1166.5	1183.0	1201.3	1208.6	1216.0
35°	6127.4	4779.6	2100.5	1245.3	1124.4	1098.8	1098.8	1096.9	1104.3	1107.9	1111.6
37.5°	6165.9	4609.3	1748.9	1135.4	1062.1	1043.8	1032.8	1021.8	1018.2	1018.2	1020.0
40°	6328.9	4519.6	1487.0	1064.0	1018.2	990.7	970.6	957.8	944.9	948.6	952.3
42.5°	6675.0	4536.1	1309.4	1016.4	979.7	941.3	912.0	897.3	888.2	899.2	897.3
45°	7226.2	4700.9	1195.8	983.4	941.3	891.8	864.4	849.7	849.7	866.2	871.7
47.5°	7997.2	5015.9	1135.4	957.8	912.0	853.4	825.9	814.9	818.6	846.0	847.9
50°	8938.4	5563.4	1124.4	944.9	897.3	825.9	794.8	783.8	792.9	822.2	825.9
52.5°	9976.8	6268.4	1177.5	946.8	884.5	809.4	769.1	752.7	761.8	785.6	792.9
55°	11207.4	7151.1	1314.9	954.1	866.2	800.3	750.8	714.2	725.2	741.7	743.5
57.5°	12463.6	8264.5	1556.6	955.9	851.5	783.8	719.7	672.1	672.1	683.1	688.6
60°	13998.2	9476.8	1875.2	957.8	853.4	760.0	677.6	624.5	617.1	622.6	624.5
62.5°	15521.9	10491.4	1928.3	952.3	871.7	736.2	631.8	576.9	564.0	562.2	558.5
65°	16193.9	10302.7	1580.4	926.6	891.8	721.5	595.2	531.1	509.1	501.8	501.8
67.5°	15098.8	8715.0	1188.5	891.8	879.0	706.9	560.4	492.6	467.0	452.3	452.3
69°	14069.7	7751.8	1067.6	868.0	846.0	683.1	538.4	472.5	441.3	424.9	419.4
70°	13274.9	7088.9	1016.4	847.9	814.9	655.6	521.9	457.8	423.0	404.7	401.0
72.5°	10593.9	5561.6	890.0	771.0	694.1	551.2	463.3	412.0	379.1	358.9	353.4
75°	6105.5	3014.3	738.0	670.2	558.5	428.5	391.9	358.9	333.3	315.0	309.5
77.5°	1878.9	1164.7	534.7	529.2	410.2	331.5	313.1	300.3	282.0	261.9	258.2
80°	791.1	593.3	362.6	357.1	272.9	230.7	225.2	223.4	216.1	199.6	194.1
82.5°	434.0	335.1	252.7	219.8	164.8	133.7	139.2	141.0	135.5	119.0	108.0
85°	212.4	183.1	122.7	98.9	75.1	47.6	45.8	54.9	51.3	36.6	40.3
87.5°	42.1	51.3	33.0	14.7	7.3	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)