

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: P455999

Luminaire Tested: **GALN-SA7B-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455999
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-SA7B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 32853 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

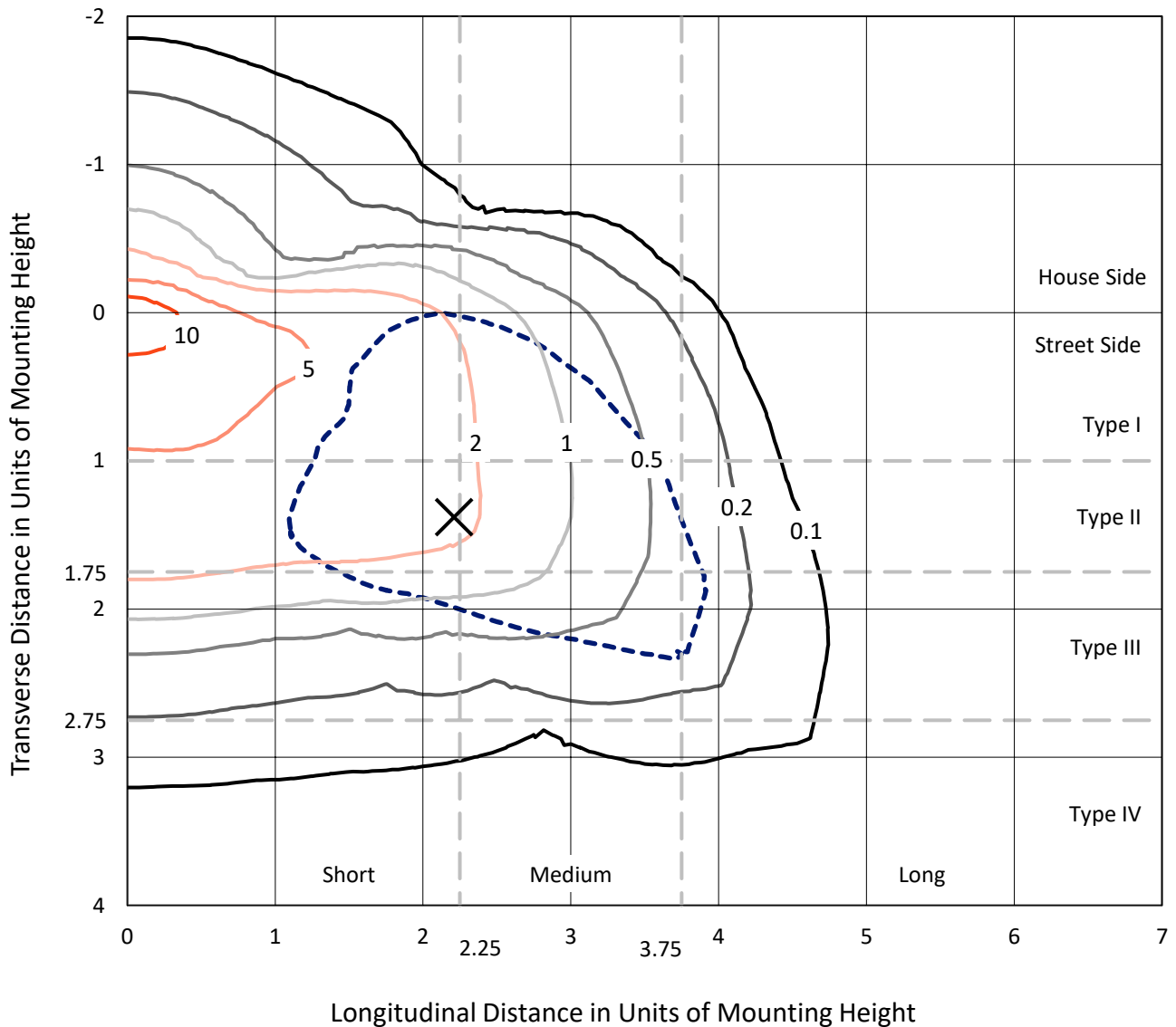
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

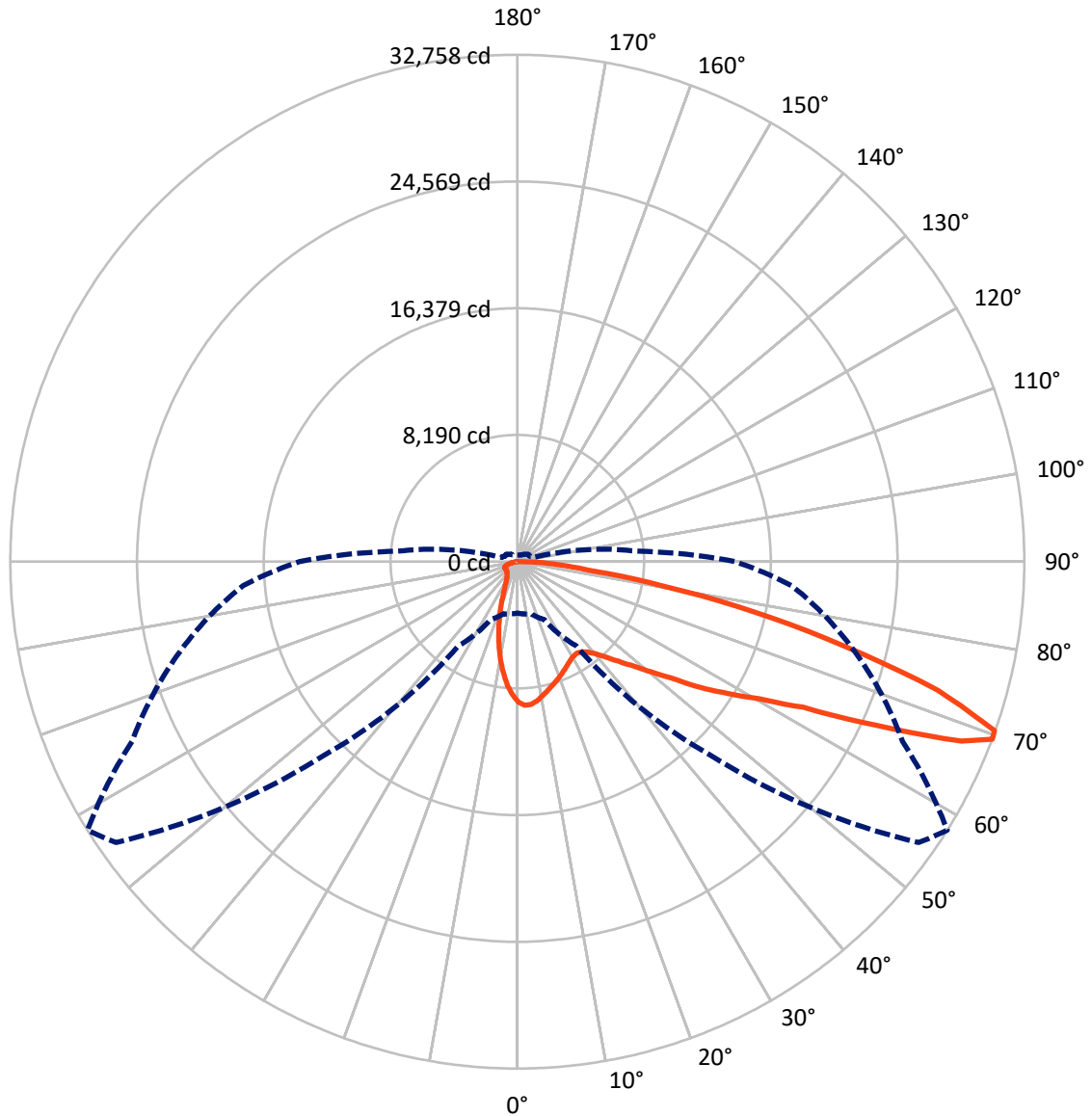
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4814.6	0.0	4814.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28038.4	0.0	28038.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	32853.0	0.0	32853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.0	2.3
10°-20°	1693.0	5.2
20°-30°	2187.3	6.7
30°-40°	2841.0	8.6
40°-50°	4130.3	12.6
50°-60°	6590.6	20.1
60°-70°	8804.3	26.8
70°-80°	5075.3	15.4
80°-90°	760.2	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°	32853.0	100.0
0°-180°	32853.0	100.0

Coefficient of Utilization



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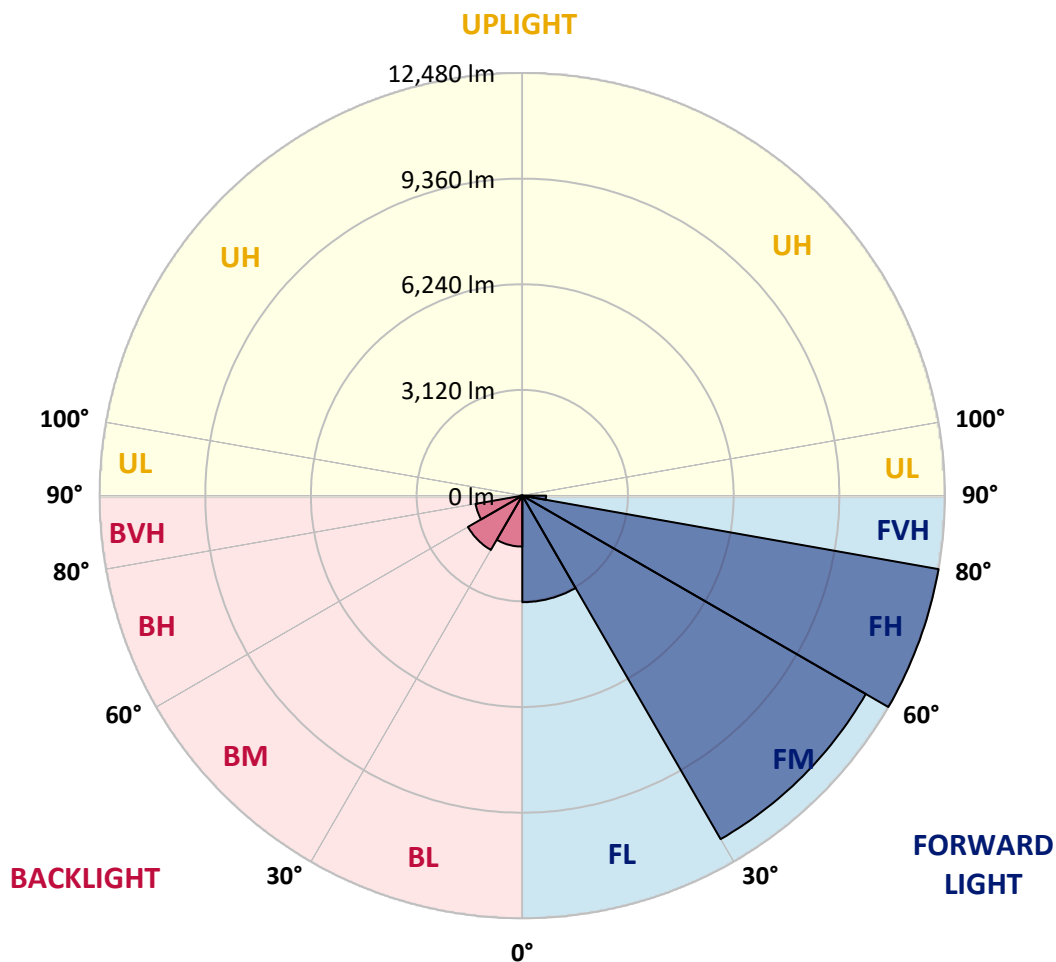
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3146.5	9.6			
FM	(30°-60°)	11710.4	35.6			
FH	(60°-80°)	12479.6	38.0			G5
FVH	(80°-90°)	701.9	2.1			G4/750
BL	(0°-30°)	1504.8	4.6	B3/2500		
BM	(30°-60°)	1851.5	5.6	B2/2500		
BH	(60°-80°)	1400.0	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°	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6
2.5°	9415.8	9441.4	9434.1	9424.9	9410.3	9370.0	9304.0	9293.0	9250.9	9161.1	9049.3
5°	9271.0	9293.0	9294.8	9307.7	9326.0	9318.7	9271.0	9265.5	9203.2	9082.3	8895.4
7.5°	8774.5	8803.8	8867.9	8939.4	9003.5	9064.0	9078.6	9087.8	9049.3	8910.1	8660.9
10°	8215.7	8245.0	8274.3	8380.6	8538.1	8688.4	8813.0	8829.5	8838.6	8710.4	8406.2
12.5°	7596.4	7656.8	7719.1	7876.7	8087.4	8323.8	8543.6	8578.5	8640.7	8543.6	8186.4
15°	7070.5	7132.8	7222.6	7363.7	7618.4	7959.2	8268.8	8325.6	8448.4	8398.9	7981.1
17.5°	6705.9	6727.9	6790.2	6951.4	7226.3	7585.4	7999.5	8113.1	8309.1	8296.3	7805.3
20°	6418.3	6445.7	6484.2	6583.2	6869.0	7248.3	7748.5	7895.0	8160.7	8204.7	7631.2
22.5°	6297.3	6317.5	6312.0	6365.1	6559.3	6940.4	7493.8	7667.8	8028.8	8142.4	7470.0
25°	6304.7	6323.0	6295.5	6282.7	6398.1	6669.3	7228.1	7449.8	7922.5	8100.2	7323.4
27.5°	6427.4	6440.3	6388.9	6337.6	6346.8	6500.7	7008.2	7253.8	7832.7	8118.6	7200.6
30°	6592.3	6616.1	6583.2	6520.9	6453.1	6460.4	6867.2	7109.0	7790.6	8182.7	7142.0
32.5°	6804.9	6826.8	6812.2	6762.7	6674.8	6577.7	6832.3	7055.9	7794.3	8312.8	7129.2
35°	7028.4	7072.4	7096.2	7092.5	7021.1	6852.5	6969.8	7154.8	7882.2	8530.8	7204.3
37.5°	7281.2	7317.9	7420.5	7486.4	7420.5	7224.4	7279.4	7407.7	8076.4	8846.0	7369.2
40°	7526.8	7581.7	7732.0	7937.2	7911.5	7739.3	7752.1	7836.4	8419.0	9315.0	7691.7
42.5°	7783.3	7849.2	8111.2	8415.4	8475.8	8342.1	8376.9	8452.0	8906.4	9965.4	8245.0
45°	8113.1	8191.9	8514.3	8893.6	9131.8	9049.3	9148.3	9184.9	9558.7	10811.9	8974.2
47.5°	8538.1	8629.8	9027.3	9500.1	9837.2	9912.3	10084.5	10062.5	10366.7	11814.1	9919.6
50°	9254.5	9305.8	9681.4	10163.3	10626.9	10965.8	11152.7	11187.5	11368.9	12788.9	10976.8
52.5°	10106.5	10152.3	10423.5	10844.9	11425.7	12143.9	12605.7	12492.1	12536.0	13976.2	12213.6
55°	11064.8	11141.7	11314.0	11594.3	12347.3	13404.5	14331.6	14359.1	13871.7	15112.1	13399.0
57.5°	11806.8	11936.9	12231.9	12631.3	13585.9	14806.2	16052.1	16070.4	15447.4	16325.1	14707.2
60°	11433.0	11587.0	12261.2	13234.1	15211.1	17252.2	18107.8	18003.4	16981.0	17706.6	16303.1
62.5°	9820.7	9848.2	10828.4	12349.2	15711.3	20524.5	21167.6	20726.1	19027.6	19458.2	17924.6
65°	6356.0	6535.5	7312.4	9443.3	14067.8	22340.2	26528.7	25508.2	21896.9	21446.1	19282.3
67.5°	4012.6	3966.8	4289.2	5392.2	9675.9	20740.7	31103.8	30942.5	25649.2	22701.2	18958.0
69°	3327.3	3378.6	3488.5	4133.5	6658.3	17708.4	31644.3	32758.2	27468.6	22602.3	17779.9
70°	3017.7	3041.5	3156.9	3664.4	5137.5	14831.8	30757.5	32708.8	28183.2	22188.2	16926.0
72.5°	2394.7	2392.9	2590.8	3048.8	3840.3	8466.7	25255.3	28397.6	27384.3	20260.7	13985.3
75°	1819.4	1848.7	2066.7	2579.8	3538.0	4626.4	17624.1	21869.4	21871.2	16002.6	8726.9
77.5°	1311.9	1330.2	1584.9	2165.7	3332.8	3750.6	11739.0	15685.6	14745.7	7332.5	2742.8
80°	859.3	870.3	1064.5	1715.0	3004.8	3538.0	6960.6	9600.8	6955.1	1945.8	906.9
82.5°	470.9	525.8	650.4	1110.3	2411.2	3268.7	4230.6	4859.0	2609.1	866.6	472.7
85°	236.4	251.0	366.4	648.6	1575.7	2704.4	2946.2	2786.8	1346.7	430.6	245.5
87.5°	69.6	87.9	152.1	251.0	639.4	1409.0	1639.8	1471.3	518.5	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°	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6	9078.6
2.5°	9003.5	8970.5	8824.0	8692.0	8571.1	8442.9	8334.8	8239.5	8248.7	8250.5	8153.4
5°	8798.3	8723.2	8444.7	8184.5	7964.7	7686.2	7448.0	7294.1	7217.1	7114.5	7151.2
7.5°	8519.8	8375.1	7988.5	7556.1	7151.2	6790.2	6398.1	6128.8	5956.5	5789.8	5811.8
10°	8232.2	7999.5	7437.0	6865.3	6341.3	5764.2	5264.0	4835.2	4516.4	4397.3	4318.5
12.5°	7937.2	7631.2	6916.6	6156.3	5432.5	4741.8	4032.7	3572.8	3221.0	3034.2	3058.0
15°	7667.8	7295.9	6374.3	5447.2	4507.3	3684.6	2977.4	2539.5	2293.9	2242.6	2272.0
17.5°	7418.7	6931.3	5866.8	4758.3	3660.8	2763.0	2237.1	1989.8	1890.9	1863.4	1861.5
20°	7162.1	6621.6	5296.9	4021.7	2852.8	2141.9	1835.9	1720.5	1702.1	1713.1	1715.0
22.5°	6902.0	6238.7	4710.6	3290.7	2272.0	1751.6	1605.0	1573.9	1588.5	1614.2	1617.8
25°	6661.9	5901.6	4146.3	2649.4	1813.9	1539.1	1467.6	1467.6	1500.6	1539.1	1540.9
27.5°	6464.1	5575.4	3583.8	2103.4	1518.9	1385.2	1361.3	1374.2	1420.0	1449.3	1451.1
30°	6301.0	5271.3	3052.5	1685.6	1335.7	1262.4	1256.9	1278.9	1311.9	1339.4	1341.2
32.5°	6178.2	5003.8	2555.9	1416.3	1209.3	1169.0	1167.1	1183.6	1201.9	1209.3	1216.6
35°	6130.6	4782.1	2101.6	1245.9	1125.0	1099.3	1099.3	1097.5	1104.8	1108.5	1112.2
37.5°	6169.1	4611.7	1749.8	1136.0	1062.7	1044.4	1033.4	1022.4	1018.7	1018.7	1020.5
40°	6332.1	4521.9	1487.8	1064.5	1018.7	991.2	971.1	958.3	945.4	949.1	952.8
42.5°	6678.4	4538.4	1310.0	1016.9	980.2	941.8	912.4	897.8	888.6	899.6	897.8
45°	7229.9	4703.3	1196.4	983.9	941.8	892.3	864.8	850.1	850.1	866.6	872.1
47.5°	8001.3	5018.4	1136.0	958.3	912.4	853.8	826.3	815.3	819.0	846.5	848.3
50°	8943.1	5566.3	1125.0	945.4	897.8	826.3	795.2	784.2	793.4	822.7	826.3
52.5°	9981.9	6271.7	1178.1	947.3	885.0	809.8	769.5	753.0	762.2	786.0	793.4
55°	11213.2	7154.8	1315.5	954.6	866.6	800.7	751.2	714.6	725.6	742.0	743.9
57.5°	12470.1	8268.8	1557.4	956.4	852.0	784.2	720.1	672.4	672.4	683.4	688.9
60°	14005.5	9481.7	1876.2	958.3	853.8	760.4	677.9	624.8	617.5	623.0	624.8
62.5°	15529.9	10496.8	1929.3	952.8	872.1	736.6	632.1	577.1	564.3	562.5	558.8
65°	16202.3	10308.1	1581.2	927.1	892.3	721.9	595.5	531.3	509.4	502.0	502.0
67.5°	15106.6	8719.5	1189.1	892.3	879.5	707.2	560.7	492.9	467.2	452.6	452.6
69°	14076.9	7755.8	1068.2	868.5	846.5	683.4	538.7	472.7	441.6	425.1	419.6
70°	13281.8	7092.5	1016.9	848.3	815.3	655.9	522.2	458.1	423.2	404.9	401.3
72.5°	10599.4	5564.4	890.5	771.4	694.4	551.5	463.6	412.2	379.3	359.1	353.6
75°	6108.6	3015.8	738.4	670.6	558.8	428.7	392.1	359.1	333.5	315.1	309.6
77.5°	1879.9	1165.3	535.0	529.5	410.4	331.6	313.3	300.5	282.2	262.0	258.3
80°	791.5	593.6	362.8	357.3	273.0	230.9	225.4	223.5	216.2	199.7	194.2
82.5°	434.2	335.3	252.8	219.9	164.9	133.8	139.2	141.1	135.6	119.1	108.1
85°	212.5	183.2	122.8	98.9	75.1	47.6	45.8	55.0	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)