

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: P456028

Luminaire Tested: **GALN-SA7B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456028
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-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 35775 lumens
Efficiency: N/A
Efficacy: 125.1 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

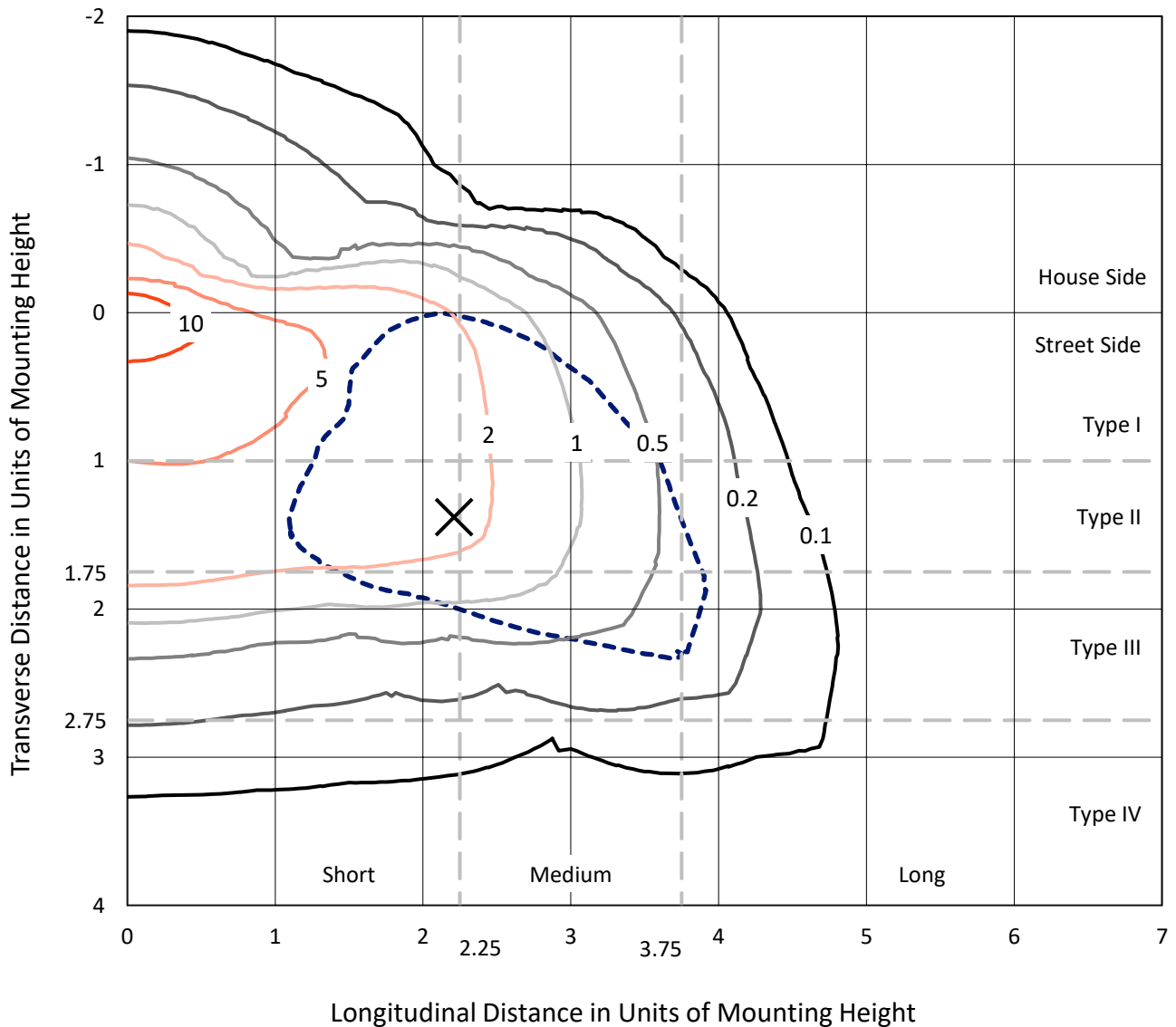
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456028
 CATALOG NUMBER: GALN-SA7B-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

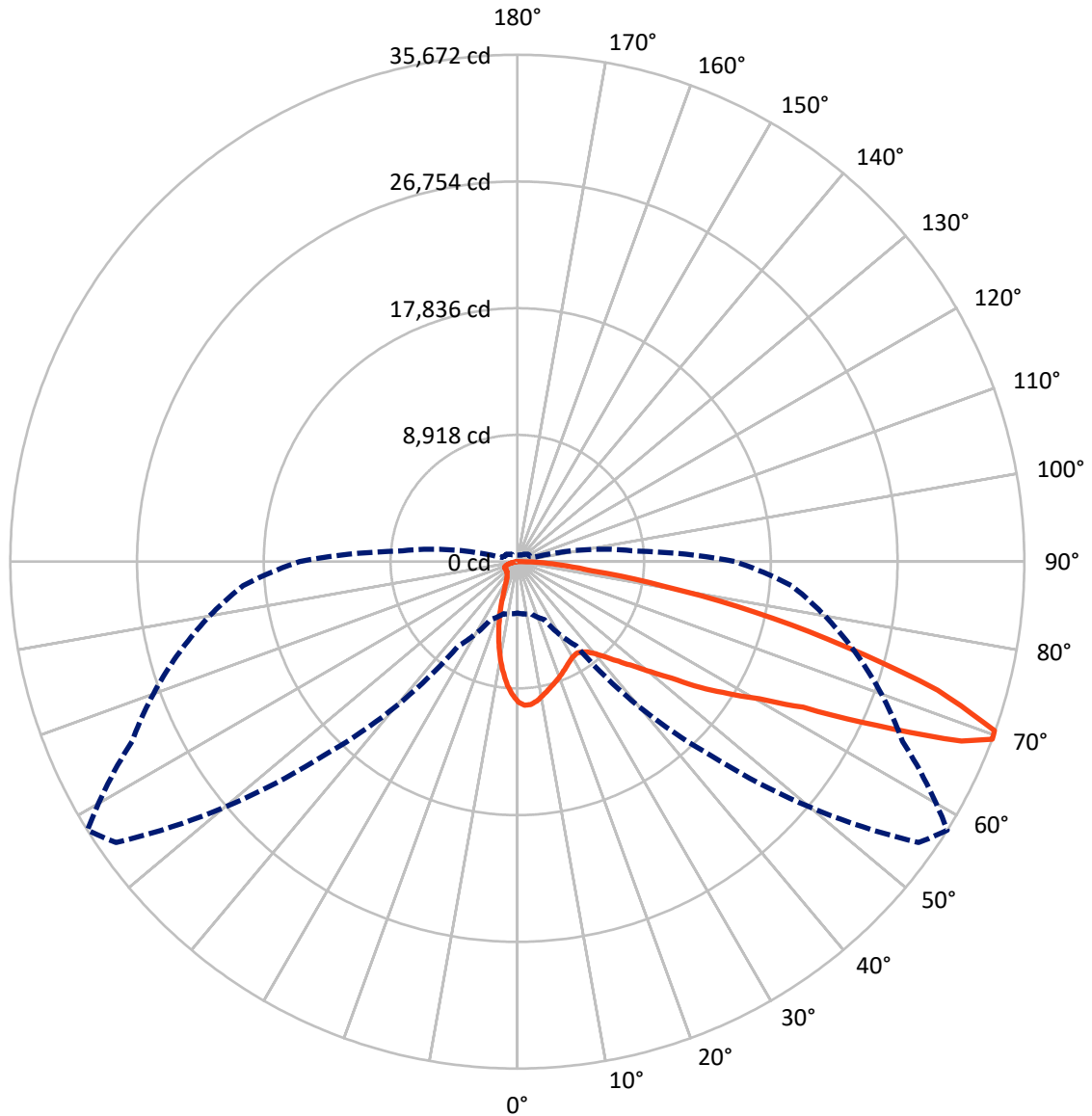
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

REPORT NUMBER: P456028
CATALOG NUMBER: GALN-SA7B-730-U-SL3

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	5242.8	0.0	5242.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30532.2	0.0	30532.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	35775.0	0.0	35775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.6	2.3
10°-20°	1843.6	5.2
20°-30°	2381.9	6.7
30°-40°	3093.6	8.6
40°-50°	4497.7	12.6
50°-60°	7176.8	20.1
60°-70°	9587.3	26.8
70°-80°	5526.7	15.4
80°-90°	827.8	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°	35775.0	100.0
0°-180°	35775.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456028

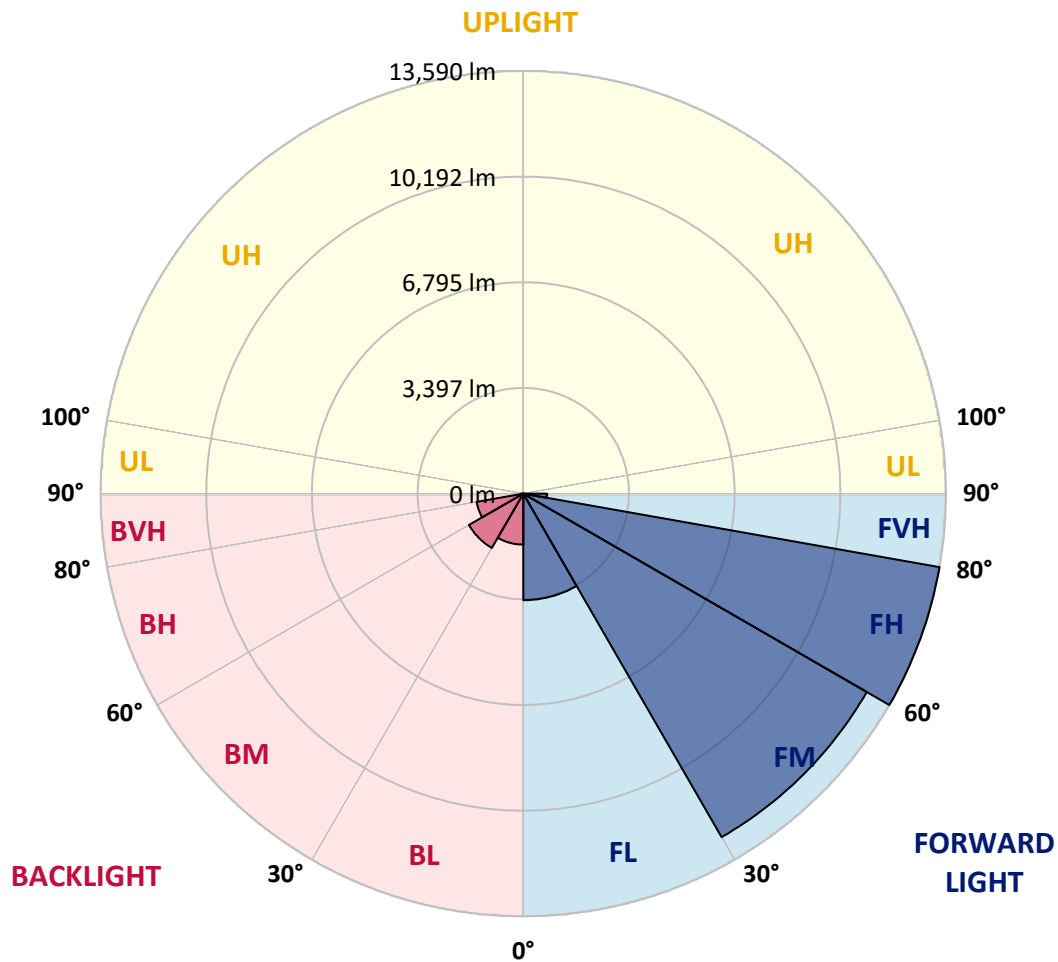
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3426.3	9.6			
FM	(30°-60°)	12751.9	35.6			
FH	(60°-80°)	13589.5	38.0			G5
FVH	(80°-90°)	764.4	2.1			G5
BL	(0°-30°)	1638.7	4.6	B3/2500		
BM	(30°-60°)	2016.2	5.6	B2/2500		
BH	(60°-80°)	1524.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	63.4	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





REPORT NUMBER: P456028

CATALOG NUMBER: GALN-SA7B-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1
2.5°	10253.2	10281.2	10273.2	10263.2	10247.2	10203.3	10131.5	10119.6	10073.7	9975.9	9854.2
5°	10095.6	10119.6	10121.5	10135.5	10155.5	10147.5	10095.6	10089.6	10021.8	9890.1	9686.6
7.5°	9554.9	9586.8	9656.7	9734.5	9804.3	9870.2	9886.1	9896.1	9854.2	9702.6	9431.2
10°	8946.4	8978.3	9010.2	9126.0	9297.5	9461.1	9596.8	9614.8	9624.7	9485.1	9153.9
12.5°	8272.0	8337.9	8405.7	8577.3	8806.7	9064.1	9303.5	9341.4	9409.3	9303.5	8914.5
15°	7699.4	7767.2	7865.0	8018.6	8296.0	8667.1	9004.2	9066.1	9199.8	9145.9	8691.0
17.5°	7302.4	7326.3	7394.1	7569.7	7869.0	8260.0	8711.0	8834.7	9048.1	9034.2	8499.5
20°	6989.1	7019.0	7060.9	7168.7	7479.9	7892.9	8437.6	8597.2	8886.5	8934.4	8309.9
22.5°	6857.4	6879.4	6873.4	6931.3	7142.7	7557.7	8160.3	8349.8	8742.9	8866.6	8134.3
25°	6865.4	6885.4	6855.4	6841.5	6967.2	7262.5	7871.0	8112.4	8627.2	8820.7	7974.7
27.5°	6999.1	7013.1	6957.2	6901.3	6911.3	7078.9	7631.6	7898.9	8529.4	8840.6	7841.1
30°	7178.7	7204.6	7168.7	7100.8	7027.0	7035.0	7477.9	7741.3	8483.5	8910.5	7777.2
32.5°	7410.1	7434.0	7418.1	7364.2	7268.4	7162.7	7440.0	7683.4	8487.5	9052.1	7763.2
35°	7653.5	7701.4	7727.3	7723.3	7645.5	7462.0	7589.7	7791.2	8583.3	9289.6	7845.0
37.5°	7928.8	7968.7	8080.5	8152.3	8080.5	7867.0	7926.8	8066.5	8794.8	9632.7	8024.6
40°	8196.2	8256.1	8419.7	8643.1	8615.2	8427.6	8441.6	8533.4	9167.9	10143.5	8375.8
42.5°	8475.5	8547.3	8832.7	9163.9	9229.7	9084.1	9122.0	9203.8	9698.6	10851.8	8978.3
45°	8834.7	8920.4	9271.6	9684.6	9944.0	9854.2	9961.9	10001.8	10408.9	11773.6	9772.4
47.5°	9297.5	9397.3	9830.3	10345.0	10712.1	10793.9	10981.5	10957.5	11288.7	12864.9	10801.9
50°	10077.7	10133.5	10542.5	11067.3	11572.0	11941.2	12144.7	12182.6	12380.1	13926.4	11953.1
52.5°	11005.4	11055.3	11350.6	11809.5	12441.9	13224.1	13726.8	13603.1	13651.0	15219.2	13299.9
55°	12048.9	12132.7	12320.2	12625.5	13445.5	14596.7	15606.3	15636.2	15105.5	16456.2	14590.7
57.5°	12856.9	12998.6	13319.8	13754.8	14794.3	16123.0	17479.8	17499.7	16821.4	17777.1	16015.3
60°	12449.9	12617.5	13351.7	14411.2	16564.0	18786.6	19718.4	19604.6	18491.3	19281.4	17753.1
62.5°	10694.2	10724.1	11791.5	13447.5	17108.7	22350.0	23050.3	22569.5	20719.9	21188.8	19518.8
65°	6921.3	7116.8	7962.8	10283.2	15319.0	24327.2	28888.2	27776.9	23844.4	23353.6	20997.3
67.5°	4369.4	4319.6	4670.7	5871.8	10536.5	22585.4	33870.2	33694.6	27930.5	24720.3	20644.1
69°	3623.2	3679.1	3798.8	4501.1	7250.5	19283.4	34458.7	35671.8	29911.7	24612.5	19361.2
70°	3286.1	3312.0	3437.7	3990.4	5594.5	16151.0	33493.1	35617.9	30689.9	24161.6	18431.5
72.5°	2607.7	2605.7	2821.2	3320.0	4181.9	9219.7	27501.6	30923.3	29820.0	22062.7	15229.2
75°	1981.2	2013.1	2250.6	2809.2	3852.7	5037.8	19191.6	23814.5	23816.5	17425.9	9503.0
77.5°	1428.5	1448.5	1725.8	2358.3	3629.2	4084.1	12783.1	17080.7	16057.2	7984.7	2986.8
80°	935.7	947.7	1159.2	1867.5	3272.1	3852.7	7579.7	10454.7	7573.7	2118.9	987.6
82.5°	512.8	572.6	708.3	1209.1	2625.7	3559.4	4606.9	5291.2	2841.1	943.7	514.8
85°	257.4	273.3	399.0	706.3	1715.9	2944.9	3208.2	3034.7	1466.5	468.9	267.4
87.5°	75.8	95.8	165.6	273.3	696.3	1534.3	1785.7	1602.1	564.6	169.6	55.9
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°	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1	9886.1
2.5°	9804.3	9768.4	9608.8	9465.1	9333.5	9193.8	9076.1	8972.3	8982.3	8984.3	8878.5
5°	9580.9	9499.1	9195.8	8912.5	8673.0	8369.8	8110.4	7942.8	7859.0	7747.3	7787.2
7.5°	9277.6	9120.0	8699.0	8228.1	7787.2	7394.1	6967.2	6673.9	6486.3	6304.8	6328.7
10°	8964.3	8711.0	8098.4	7475.9	6905.3	6276.8	5732.2	5265.3	4918.1	4788.4	4702.6
12.5°	8643.1	8309.9	7531.8	6703.8	5915.7	5163.5	4391.4	3890.6	3507.5	3304.0	3330.0
15°	8349.8	7944.8	6941.2	5931.7	4908.1	4012.3	3242.2	2765.3	2498.0	2442.1	2474.0
17.5°	8078.5	7547.8	6388.6	5181.5	3986.4	3008.7	2436.1	2166.8	2059.0	2029.1	2027.1
20°	7799.2	7210.6	5768.1	4379.4	3106.5	2332.4	1999.2	1873.5	1853.5	1865.5	1867.5
22.5°	7515.8	6793.6	5129.6	3583.3	2474.0	1907.4	1747.8	1713.9	1729.8	1757.8	1761.7
25°	7254.5	6426.5	4515.1	2885.0	1975.2	1676.0	1598.1	1598.1	1634.1	1676.0	1677.9
27.5°	7039.0	6071.3	3902.6	2290.5	1654.0	1508.4	1482.4	1496.4	1546.3	1578.2	1580.2
30°	6861.4	5740.1	3324.0	1835.6	1454.5	1374.7	1368.7	1392.6	1428.5	1458.5	1460.5
32.5°	6727.7	5448.8	2783.3	1542.3	1316.8	1272.9	1270.9	1288.9	1308.8	1316.8	1324.8
35°	6675.9	5207.4	2288.5	1356.7	1225.0	1197.1	1197.1	1195.1	1203.1	1207.1	1211.1
37.5°	6717.8	5021.9	1905.4	1237.0	1157.2	1137.3	1125.3	1113.3	1109.3	1109.3	1111.3
40°	6895.3	4924.1	1620.1	1159.2	1109.3	1079.4	1057.4	1043.5	1029.5	1033.5	1037.5
42.5°	7272.4	4942.1	1426.6	1107.3	1067.4	1025.5	993.6	977.6	967.7	979.6	977.6
45°	7873.0	5121.6	1302.9	1071.4	1025.5	971.7	941.7	925.8	925.8	943.7	949.7
47.5°	8712.9	5464.8	1237.0	1043.5	993.6	929.8	899.8	887.9	891.8	921.8	923.8
50°	9738.5	6061.4	1225.0	1029.5	977.6	899.8	865.9	853.9	863.9	895.8	899.8
52.5°	10869.7	6829.5	1282.9	1031.5	963.7	881.9	838.0	820.0	830.0	855.9	863.9
55°	12210.5	7791.2	1432.5	1039.5	943.7	871.9	818.0	778.1	790.1	808.0	810.0
57.5°	13579.2	9004.2	1695.9	1041.5	927.8	853.9	784.1	732.2	732.2	744.2	750.2
60°	15251.2	10325.1	2043.1	1043.5	929.8	828.0	738.2	680.4	672.4	678.4	680.4
62.5°	16911.1	11430.4	2100.9	1037.5	949.7	802.1	688.3	628.5	614.5	612.5	608.5
65°	17643.4	11224.9	1721.8	1009.6	971.7	786.1	648.4	578.6	554.7	546.7	546.7
67.5°	16450.3	9495.1	1294.9	971.7	957.7	770.1	610.5	536.7	508.8	492.8	492.8
69°	15329.0	8445.6	1163.2	945.7	921.8	744.2	586.6	514.8	480.8	462.9	456.9
70°	14463.1	7723.3	1107.3	923.8	887.9	714.3	568.6	498.8	460.9	440.9	436.9
72.5°	11542.1	6059.4	969.7	840.0	756.2	600.5	504.8	448.9	413.0	391.1	385.1
75°	6651.9	3284.1	804.1	730.2	608.5	466.9	427.0	391.1	363.1	343.2	337.2
77.5°	2047.1	1268.9	582.6	576.6	446.9	361.1	341.2	327.2	307.3	285.3	281.3
80°	861.9	646.4	395.0	389.1	297.3	251.4	245.4	243.4	235.4	217.5	211.5
82.5°	472.9	365.1	275.3	239.4	179.6	145.6	151.6	153.6	147.6	129.7	117.7
85°	231.4	199.5	133.7	107.7	81.8	51.9	49.9	59.9	55.9	39.9	43.9
87.5°	45.9	55.9	35.9	16.0	8.0	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)