

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: P456030

Luminaire Tested: **GALN-SA7B-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35331 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

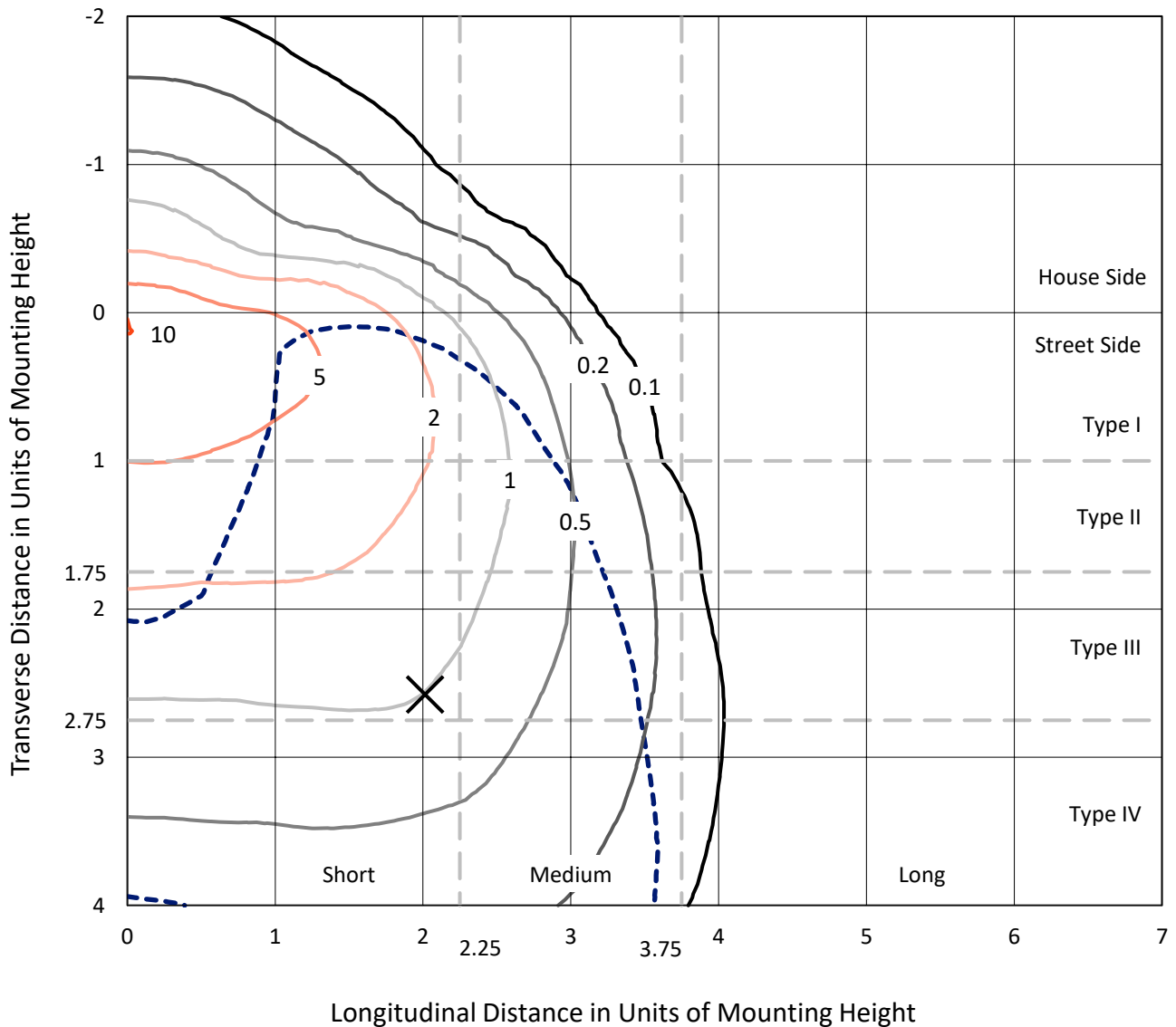
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456030
 CATALOG NUMBER: GALN-SA7B-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

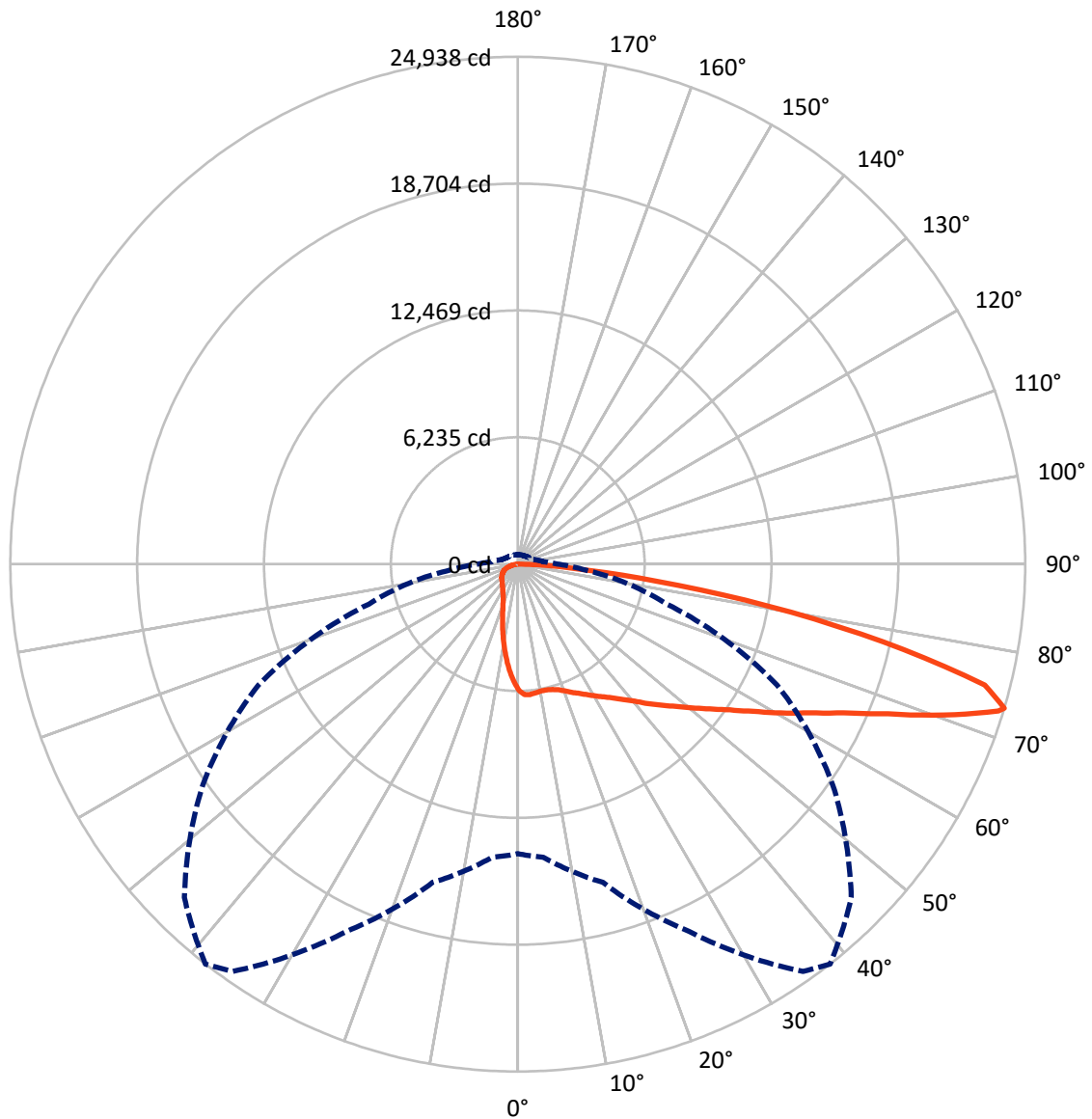
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P456030
CATALOG NUMBER: GALN-SA7B-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4749.5	0.0	4749.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30581.5	0.0	30581.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	35331.0	0.0	35331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.8	1.5
10°-20°	1389.4	3.9
20°-30°	2163.5	6.1
30°-40°	3173.4	9.0
40°-50°	4707.4	13.3
50°-60°	6669.4	18.9
60°-70°	8460.3	23.9
70°-80°	7042.6	19.9
80°-90°	1183.3	3.3
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°	35331.0	100.0
0°-180°	35331.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456030

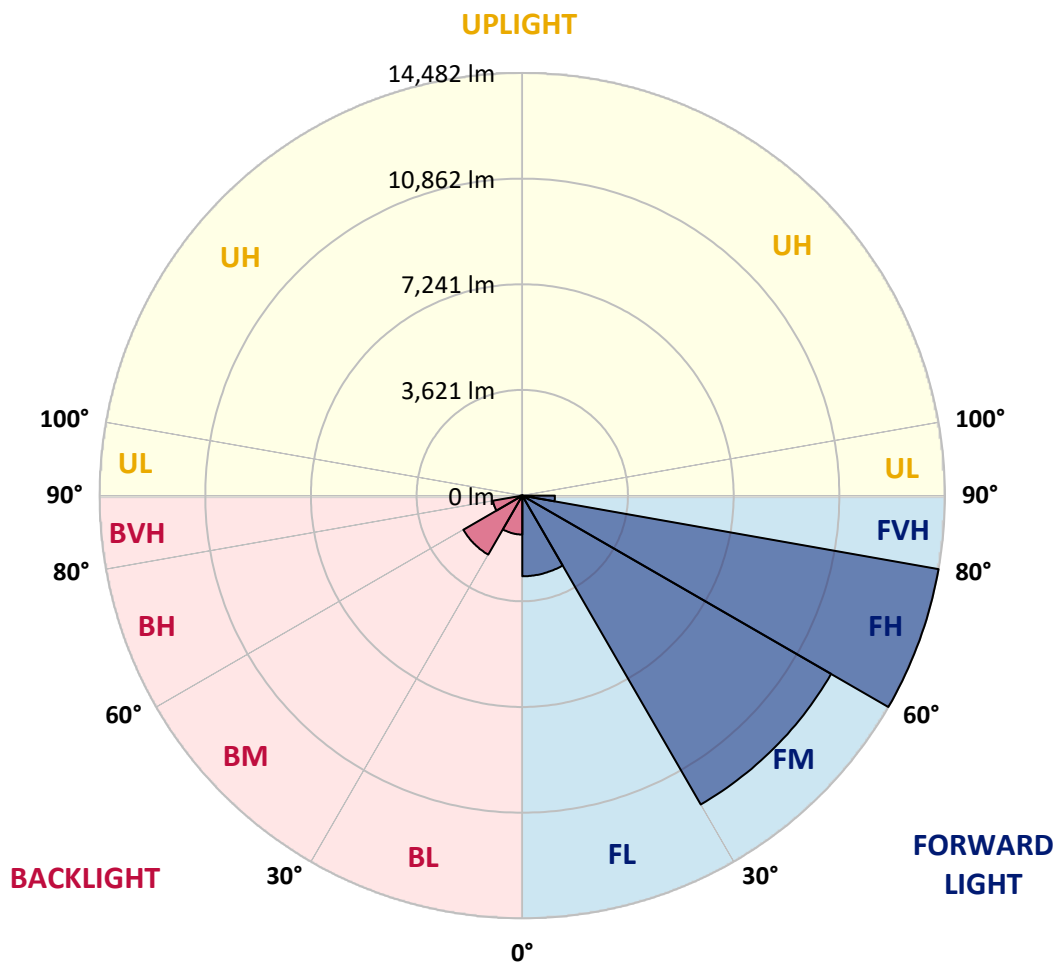
CATALOG NUMBER: GALN-SA7B-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.9	7.8			
FM (30°-60°)	12218.4	34.6			
FH (60°-80°)	14482.0	41.0			G5
FVH (80°-90°)	1119.1	3.2			G5
BL (0°-30°)	1332.8	3.8	B3/2500		
BM (30°-60°)	2331.7	6.6	B2/2500		
BH (60°-80°)	1020.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.2	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 IV Short





REPORT NUMBER: P456030

CATALOG NUMBER: GALN-SA7B-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1
2.5°	6456.5	6488.4	6472.4	6450.5	6436.5	6422.5	6402.6	6344.7	6298.8	6249.0	6171.1
5°	6504.3	6524.3	6510.3	6482.4	6450.5	6436.5	6398.6	6322.8	6249.0	6165.2	6049.4
7.5°	6476.4	6484.4	6468.4	6434.5	6406.6	6380.6	6336.7	6252.9	6163.2	6061.4	5909.8
10°	6376.6	6406.6	6406.6	6378.6	6350.7	6336.7	6292.9	6213.0	6131.2	6015.5	5836.0
12.5°	6294.8	6326.8	6352.7	6344.7	6342.7	6342.7	6308.8	6249.0	6153.2	6043.5	5830.0
15°	6239.0	6276.9	6332.8	6364.7	6384.6	6390.6	6376.6	6324.8	6227.0	6099.3	5853.9
17.5°	6227.0	6272.9	6374.7	6444.5	6496.4	6494.4	6490.4	6418.5	6310.8	6179.1	5883.8
20°	6280.9	6340.7	6482.4	6592.1	6667.9	6654.0	6632.0	6538.3	6412.6	6264.9	5911.8
22.5°	6442.5	6504.3	6660.0	6779.7	6853.5	6853.5	6787.7	6664.0	6530.3	6364.7	5949.7
25°	6673.9	6741.8	6907.4	7029.1	7063.0	7037.1	6971.2	6821.6	6667.9	6508.3	6029.5
27.5°	6957.3	7039.1	7192.7	7294.4	7284.5	7264.5	7196.7	7005.1	6851.5	6705.9	6165.2
30°	7310.4	7370.3	7529.9	7553.8	7517.9	7513.9	7418.1	7226.6	7082.9	6971.2	6358.7
32.5°	7643.6	7697.5	7825.2	7835.1	7771.3	7779.3	7689.5	7513.9	7432.1	7392.2	6683.9
35°	7996.7	8024.7	8134.4	8122.4	8080.5	8074.6	8038.6	7871.1	7897.0	7968.8	7144.8
37.5°	8292.0	8347.9	8409.8	8419.7	8417.7	8437.7	8461.6	8381.8	8531.5	8756.9	7749.3
40°	8563.4	8611.3	8703.0	8735.0	8812.8	8852.7	8934.5	8936.5	9281.7	9652.8	8493.6
42.5°	8746.9	8828.7	9000.3	9058.2	9247.7	9367.4	9489.2	9618.8	10119.6	10596.5	9371.4
45°	8906.6	9014.3	9299.6	9479.2	9736.6	9882.2	10139.6	10410.9	11131.2	11755.7	10263.3
47.5°	9148.0	9243.7	9571.0	9888.2	10277.3	10444.9	10829.9	11235.0	12176.7	12861.0	11117.2
50°	9483.2	9541.0	9874.2	10391.0	10887.8	11103.3	11612.0	12196.6	13294.0	13952.4	11867.4
52.5°	9912.1	9936.1	10201.4	10889.8	11544.2	11811.6	12485.9	13168.3	14271.6	14900.1	12462.0
55°	10418.9	10379.0	10586.5	11418.5	12294.4	12643.6	13367.8	14151.9	15371.0	15666.3	12895.0
57.5°	10919.7	10857.9	11023.5	12061.0	13220.2	13641.2	14485.1	15165.5	16352.6	16382.6	13198.2
60°	11450.4	11404.5	11602.1	12815.2	14355.4	14854.2	15634.4	16217.0	17302.3	16881.4	13246.1
62.5°	11995.1	11921.3	12202.6	13663.1	15634.4	16087.3	16843.5	17334.3	18234.1	17066.9	12785.2
65°	12523.9	12489.9	12924.9	14670.7	17090.9	17605.6	18339.9	18673.0	18980.3	16787.6	11642.0
67.5°	13086.5	13154.3	13848.7	16015.4	18990.3	19636.7	20428.8	20115.6	19193.8	15464.8	9804.4
70°	13944.4	13988.3	15061.7	17777.2	21438.4	22218.5	22601.6	20628.3	18164.3	12952.8	7370.3
72.5°	14313.5	14507.1	16145.1	19626.8	24219.7	24696.5	23331.8	19485.1	15131.6	8798.8	3872.7
73°	14231.7	14463.2	16195.0	19908.1	24437.2	24938.0	23176.2	18896.5	14066.1	7577.8	3320.0
75°	13212.2	13497.5	15546.6	19672.6	24014.2	23714.9	20674.2	16105.2	9505.1	3445.7	1512.4
77.5°	10424.9	10506.7	12318.3	15885.8	18910.5	18355.8	15472.8	10065.8	3882.7	1280.9	857.9
80°	5229.4	5530.7	6943.3	9100.1	12645.6	12464.0	9766.5	4760.5	1618.1	752.2	568.6
82.5°	2515.9	2729.4	3381.9	4437.3	6987.2	6821.6	4836.4	2601.7	1027.5	438.9	335.2
85°	1620.1	1779.7	2152.8	2116.9	2873.1	2743.4	2172.8	1969.3	608.5	229.4	233.4
87.5°	1069.4	1171.2	1404.6	1123.3	1045.5	945.7	959.7	1109.3	119.7	87.8	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456030
 CATALOG NUMBER: GALN-SA7B-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1	6207.1
2.5°	6139.2	6113.3	6027.5	5943.7	5863.9	5788.1	5738.2	5672.3	5628.5	5640.4	5658.4
5°	5985.6	5927.7	5776.1	5628.5	5488.8	5323.2	5189.5	5081.8	5000.0	4970.0	4964.1
7.5°	5824.0	5726.2	5508.7	5255.3	5017.9	4812.4	4575.0	4457.3	4319.6	4271.7	4255.8
10°	5726.2	5594.5	5289.3	4936.1	4579.0	4237.8	3980.4	3770.9	3581.4	3545.5	3527.5
12.5°	5698.3	5524.7	5113.7	4658.8	4183.9	3764.9	3383.9	3108.5	2925.0	2883.1	2821.2
15°	5682.3	5466.8	4950.1	4379.5	3776.9	3266.1	2865.1	2543.9	2376.3	2264.5	2266.5
17.5°	5668.4	5401.0	4766.5	4074.2	3425.8	2837.2	2394.2	2104.9	1951.3	1891.4	1885.5
20°	5648.4	5323.2	4555.0	3753.0	3024.7	2446.1	2045.1	1829.6	1725.8	1676.0	1674.0
22.5°	5640.4	5247.4	4347.5	3425.8	2669.6	2144.8	1813.6	1662.0	1596.2	1562.2	1562.2
25°	5660.4	5193.5	4130.1	3114.5	2354.3	1887.5	1654.0	1550.3	1512.4	1494.4	1488.4
27.5°	5722.2	5169.6	3914.6	2803.3	2065.0	1711.9	1546.3	1474.5	1446.5	1432.6	1434.5
30°	5839.9	5167.6	3703.1	2496.0	1849.5	1578.2	1460.5	1410.6	1388.7	1380.7	1378.7
32.5°	6029.5	5211.5	3495.6	2242.6	1668.0	1466.5	1380.7	1344.8	1334.8	1328.8	1326.8
35°	6350.7	5335.2	3290.1	2011.2	1528.3	1366.7	1304.9	1286.9	1272.9	1278.9	1280.9
37.5°	6783.7	5548.6	3094.6	1829.6	1422.6	1292.9	1241.0	1225.1	1217.1	1223.1	1229.0
40°	7364.3	5855.9	2930.9	1683.9	1346.8	1231.0	1185.1	1171.2	1163.2	1173.2	1175.2
42.5°	8004.7	6211.0	2795.3	1570.2	1284.9	1179.2	1135.3	1119.3	1113.3	1119.3	1121.3
45°	8663.1	6624.1	2725.4	1488.4	1233.0	1141.3	1095.4	1077.4	1063.4	1059.4	1065.4
47.5°	9311.6	6983.2	2723.4	1438.5	1191.1	1107.3	1057.5	1037.5	1019.5	1009.6	1007.6
50°	9840.3	7268.5	2771.3	1416.6	1155.2	1069.4	1019.5	999.6	975.7	955.7	959.7
52.5°	10239.4	7454.1	2793.3	1406.6	1135.3	1029.5	979.6	961.7	933.8	907.8	907.8
55°	10496.7	7498.0	2739.4	1396.6	1119.3	987.6	933.8	917.8	889.9	863.9	863.9
57.5°	10584.5	7362.3	2545.9	1372.7	1103.3	951.7	887.9	873.9	851.9	826.0	822.0
60°	10381.0	6903.4	2206.7	1300.9	1071.4	913.8	838.0	832.0	824.0	802.1	800.1
62.5°	9596.9	5929.7	1837.6	1207.1	1017.6	873.9	792.1	802.1	808.1	796.1	794.1
65°	8292.0	4814.4	1570.2	1077.4	945.7	818.0	742.2	768.2	784.1	784.1	780.1
67.5°	6725.8	3697.1	1322.8	965.7	855.9	742.2	686.3	706.3	718.3	714.3	724.3
70°	4780.5	2504.0	1077.4	838.0	742.2	656.4	614.5	614.5	606.5	602.5	602.5
72.5°	2318.4	1430.6	873.9	700.3	632.5	560.7	526.7	512.8	496.8	494.8	484.8
73°	1937.3	1282.9	834.0	674.4	606.5	546.7	508.8	486.8	476.9	468.9	466.9
75°	1179.2	973.7	696.3	568.6	516.8	470.9	436.9	417.0	407.0	401.0	399.0
77.5°	776.1	726.3	540.7	435.0	395.0	367.1	353.1	333.2	327.2	319.2	319.2
80°	578.6	554.7	387.1	307.3	283.3	259.4	255.4	251.4	235.4	225.5	221.5
82.5°	373.1	395.0	263.4	205.5	179.6	159.6	161.6	167.6	151.6	137.7	133.7
85°	265.4	285.3	159.6	93.8	75.8	65.8	73.8	65.8	67.8	53.9	43.9
87.5°	43.9	75.8	27.9	12.0	6.0	4.0	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)