

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: P456260

Luminaire Tested: **GALN-SA7C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456260
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-SA7C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 44202 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

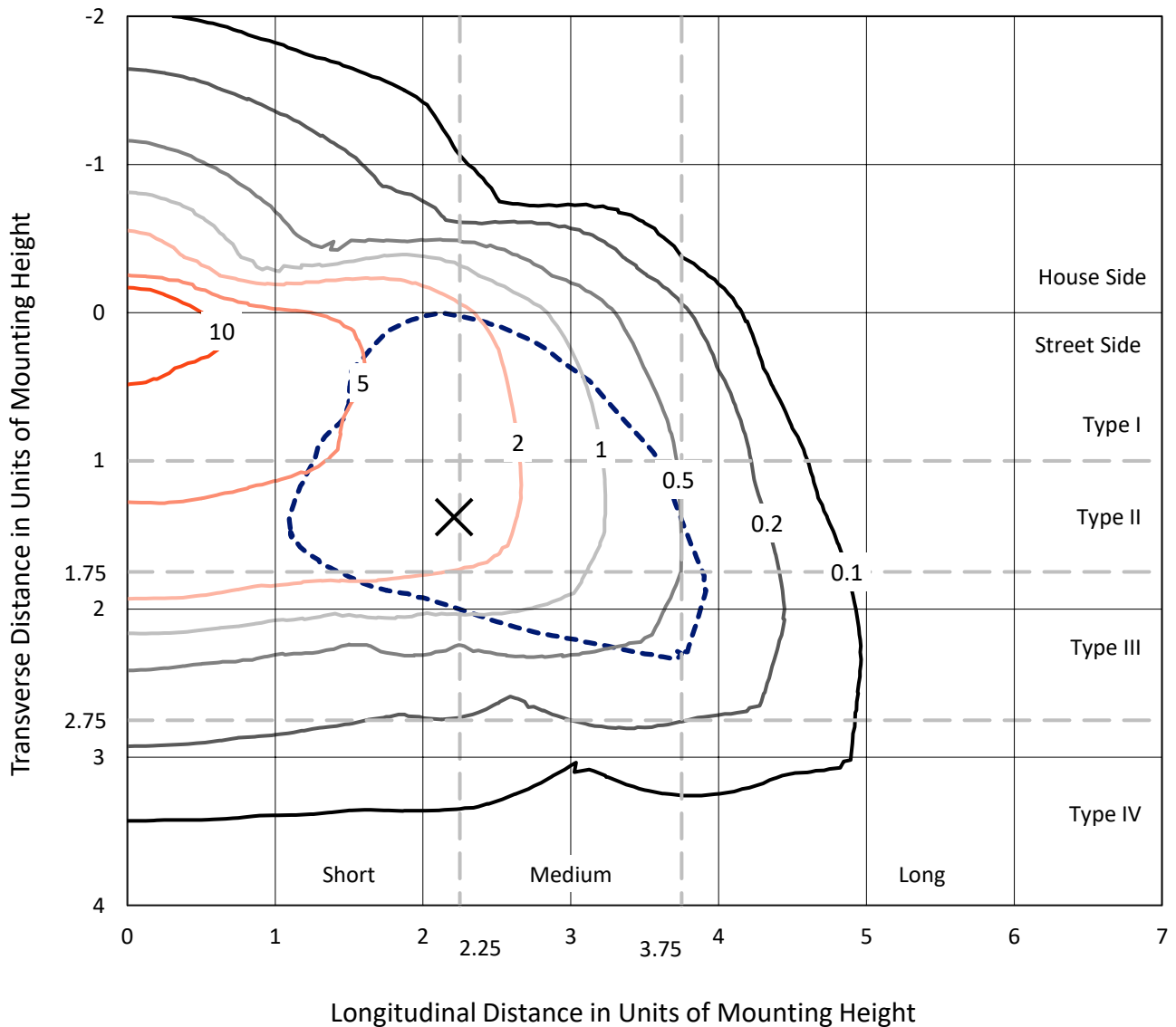
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456260
 CATALOG NUMBER: GALN-SA7C-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

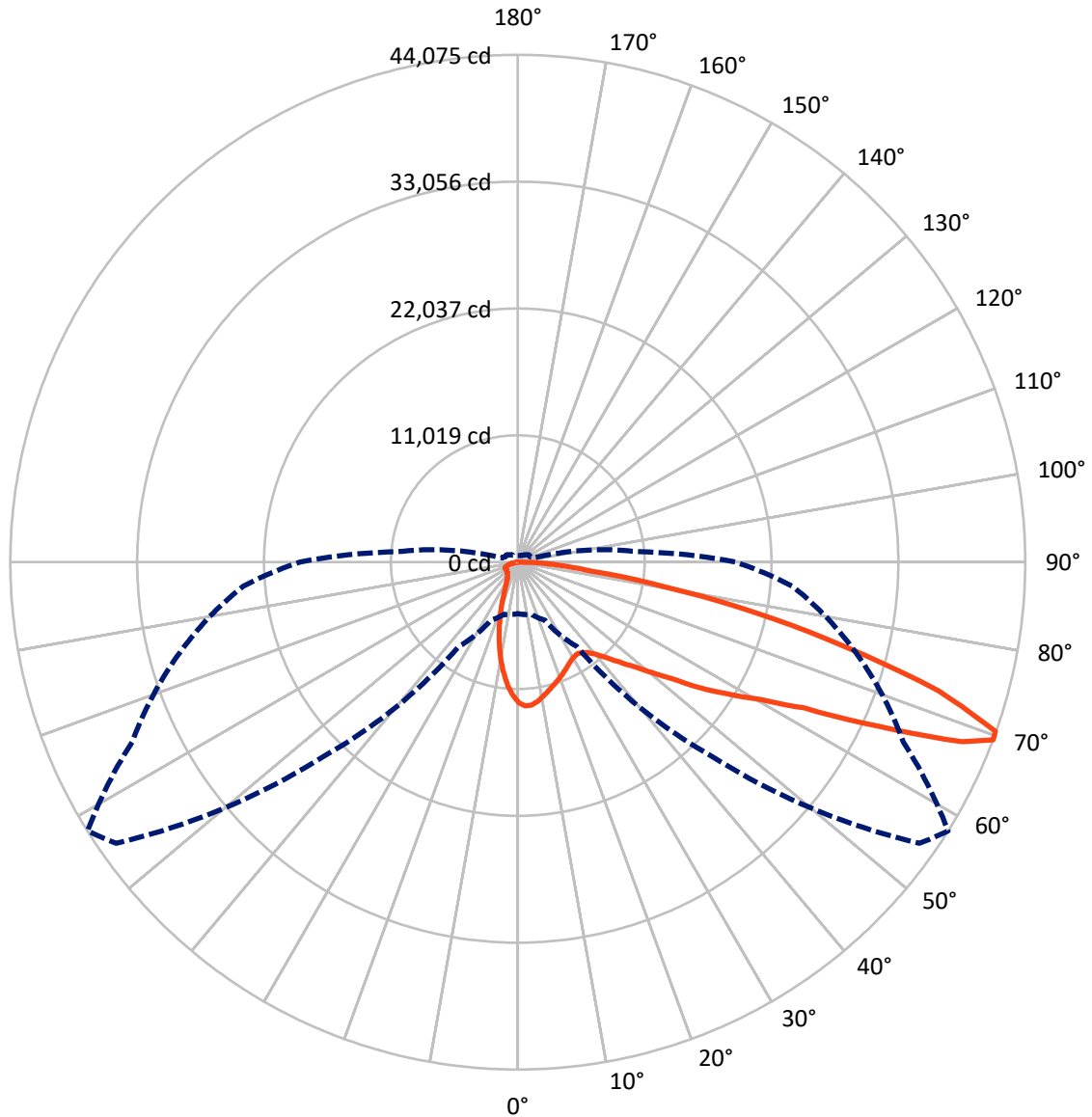
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Short - N/A

REPORT NUMBER: P456260
CATALOG NUMBER: GALN-SA7C-730-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456260

CATALOG NUMBER: GALN-SA7C-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6477.8	0.0	6477.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	37724.2	0.0	37724.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	44202.0	0.0	44202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.3	2.3
10°-20°	2277.8	5.2
20°-30°	2943.0	6.7
30°-40°	3822.3	8.6
40°-50°	5557.1	12.6
50°-60°	8867.4	20.1
60°-70°	11845.7	26.8
70°-80°	6828.6	15.4
80°-90°	1022.8	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°	44202.0	100.0
0°-180°	44202.0	100.0

Coefficient of Utilization

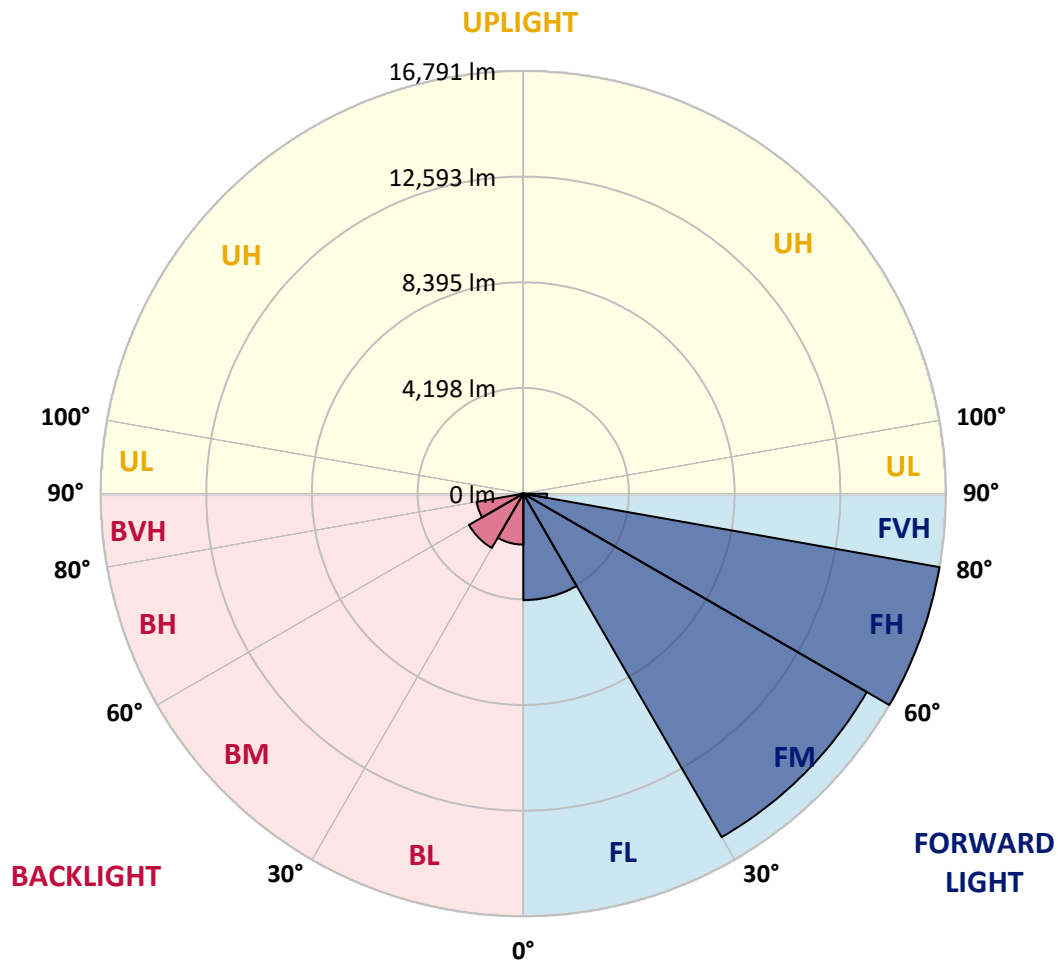


REPORT NUMBER: P456260
 CATALOG NUMBER: GALN-SA7C-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4233.4	9.6			
FM (30°-60°)	15755.7	35.6			
FH (60°-80°)	16790.6	38.0			G5
FVH (80°-90°)	944.4	2.1			G5
BL (0°-30°)	2024.7	4.6	B3/2500		
BM (30°-60°)	2491.1	5.6	B2/2500		
BH (60°-80°)	1883.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	78.4	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: P456260

CATALOG NUMBER: GALN-SA7C-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8
2.5°	12668.4	12702.9	12693.1	12680.8	12661.0	12606.8	12518.1	12503.3	12446.6	12325.8	12175.4
5°	12473.7	12503.3	12505.7	12523.0	12547.6	12537.8	12473.7	12466.3	12382.5	12219.8	11968.3
7.5°	11805.6	11845.1	11931.4	12027.5	12113.8	12195.1	12214.8	12227.2	12175.4	11988.1	11652.8
10°	11053.8	11093.2	11132.6	11275.6	11487.6	11689.8	11857.4	11879.6	11891.9	11719.3	11310.1
12.5°	10220.5	10301.9	10385.7	10597.7	10881.2	11199.2	11495.0	11541.9	11625.7	11495.0	11014.3
15°	9513.0	9596.8	9717.6	9907.5	10250.1	10708.6	11125.2	11201.7	11366.8	11300.3	10738.2
17.5°	9022.5	9052.1	9135.9	9352.8	9722.6	10205.7	10762.9	10915.7	11179.5	11162.2	10501.6
20°	8635.4	8672.4	8724.2	8857.3	9241.9	9752.2	10425.1	10622.4	10979.8	11039.0	10267.4
22.5°	8472.7	8499.9	8492.5	8563.9	8825.3	9338.0	10082.5	10316.7	10802.3	10955.2	10050.4
25°	8482.6	8507.3	8470.3	8453.0	8608.3	8973.2	9725.0	10023.3	10659.3	10898.5	9853.2
27.5°	8647.8	8665.0	8596.0	8527.0	8539.3	8746.4	9429.2	9759.6	10538.5	10923.1	9688.1
30°	8869.6	8901.7	8857.3	8773.5	8682.3	8692.1	9239.4	9564.8	10481.8	11009.4	9609.2
32.5°	9155.6	9185.2	9165.4	9098.9	8980.6	8849.9	9192.6	9493.3	10486.8	11184.4	9591.9
35°	9456.3	9515.5	9547.5	9542.6	9446.5	9219.7	9377.5	9626.4	10605.1	11477.8	9693.0
37.5°	9796.5	9845.8	9983.9	10072.6	9983.9	9720.1	9794.1	9966.6	10866.4	11901.8	9914.9
40°	10126.9	10200.8	10403.0	10679.1	10644.5	10412.8	10430.1	10543.5	11327.4	12532.9	10348.7
42.5°	10472.0	10560.7	10913.2	11322.5	11403.8	11223.9	11270.7	11371.8	11983.1	13408.0	11093.2
45°	10915.7	11021.7	11455.6	11965.9	12286.3	12175.4	12308.5	12357.8	12860.7	14546.9	12074.3
47.5°	11487.6	11610.9	12145.8	12781.8	13235.4	13336.5	13568.2	13538.6	13947.8	15895.3	13346.4
50°	12451.5	12520.5	13025.9	13674.2	14297.9	14754.0	15005.4	15052.2	15296.3	17206.8	14768.7
52.5°	13597.8	13659.4	14024.3	14591.3	15372.7	16339.0	16960.3	16807.4	16866.6	18804.2	16432.7
55°	14887.1	14990.6	15222.3	15599.5	16612.7	18035.1	19282.4	19319.4	18663.7	20332.6	18027.7
57.5°	15885.5	16060.5	16457.4	16994.8	18279.1	19920.9	21597.2	21621.9	20783.7	21964.5	19787.8
60°	15382.6	15589.6	16496.8	17805.8	20465.7	23211.9	24363.1	24222.6	22847.1	23823.3	21935.0
62.5°	13213.2	13250.2	14569.1	16615.1	21138.7	27614.7	28479.9	27885.8	25600.6	26180.0	24116.6
65°	8551.6	8793.2	9838.4	12705.4	18927.5	30057.6	35693.0	34319.9	29461.1	28854.6	25943.3
67.5°	5398.7	5337.1	5770.9	7255.0	13018.5	27905.6	41848.5	41631.5	34509.7	30543.3	25507.0
69°	4476.7	4545.7	4693.7	5561.4	8958.4	23825.7	42575.7	44074.5	36957.6	30410.2	23921.9
70°	4060.1	4092.2	4247.5	4930.3	6912.3	19955.4	41382.6	44008.0	37919.0	29853.0	22773.1
72.5°	3222.0	3219.5	3485.7	4102.0	5167.0	11391.5	33979.7	38207.4	36844.2	27259.7	18816.5
75°	2447.9	2487.3	2780.7	3470.9	4760.2	6224.5	23712.3	29424.1	29426.6	21530.7	11741.5
77.5°	1765.1	1789.7	2132.4	2913.8	4484.1	5046.2	15794.3	21104.2	19839.6	9865.6	3690.3
80°	1156.2	1170.9	1432.3	2307.4	4042.9	4760.2	9365.1	12917.4	9357.7	2618.0	1220.3
82.5°	633.5	707.5	875.1	1493.9	3244.1	4397.8	5692.0	6537.6	3510.4	1166.0	636.0
85°	318.0	337.7	493.0	872.7	2120.0	3638.6	3964.0	3749.5	1811.9	579.3	330.3
87.5°	93.7	118.3	204.6	337.7	860.3	1895.7	2206.3	1979.5	697.6	209.5	69.0
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: P456260

CATALOG NUMBER: GALN-SA7C-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8	12214.8
2.5°	12113.8	12069.4	11872.2	11694.7	11532.0	11359.4	11214.0	11085.8	11098.1	11100.6	10969.9
5°	11837.7	11736.6	11361.9	11011.8	10716.0	10341.3	10020.9	9813.8	9710.2	9572.2	9621.5
7.5°	11463.0	11268.2	10748.1	10166.3	9621.5	9135.9	8608.3	8245.9	8014.2	7789.9	7819.5
10°	11075.9	10762.9	10006.1	9236.9	8531.9	7755.4	7082.4	6505.5	6076.6	5916.4	5810.4
12.5°	10679.1	10267.4	9306.0	8282.9	7309.2	6379.8	5425.8	4807.1	4333.7	4082.3	4114.3
15°	10316.7	9816.2	8576.3	7328.9	6064.3	4957.4	4005.9	3416.7	3086.4	3017.4	3056.8
17.5°	9981.4	9325.7	7893.4	6402.0	4925.4	3717.5	3010.0	2677.2	2544.0	2507.1	2504.6
20°	9636.3	8909.1	7126.8	5411.0	3838.2	2881.8	2470.1	2314.8	2290.1	2304.9	2307.4
22.5°	9286.2	8393.9	6337.9	4427.4	3056.8	2356.7	2159.5	2117.6	2137.3	2171.8	2176.7
25°	8963.3	7940.3	5578.6	3564.6	2440.5	2070.7	1974.6	1974.6	2019.0	2070.7	2073.2
27.5°	8697.1	7501.5	4821.8	2830.0	2043.6	1863.7	1831.6	1848.9	1910.5	1949.9	1952.4
30°	8477.7	7092.3	4106.9	2267.9	1797.1	1698.5	1691.1	1720.7	1765.1	1802.0	1804.5
32.5°	8312.5	6732.3	3438.9	1905.6	1627.0	1572.8	1570.3	1592.5	1617.1	1627.0	1636.9
35°	8248.4	6434.1	2827.5	1676.3	1513.6	1479.1	1479.1	1476.6	1486.5	1491.4	1496.3
37.5°	8300.2	6204.8	2354.2	1528.4	1429.8	1405.1	1390.3	1375.6	1370.6	1370.6	1373.1
40°	8519.6	6084.0	2001.7	1432.3	1370.6	1333.6	1306.5	1289.3	1272.0	1277.0	1281.9
42.5°	8985.5	6106.2	1762.6	1368.2	1318.9	1267.1	1227.6	1207.9	1195.6	1210.4	1207.9
45°	9727.5	6328.1	1609.7	1323.8	1267.1	1200.5	1163.6	1143.8	1143.8	1166.0	1173.4
47.5°	10765.3	6752.1	1528.4	1289.3	1227.6	1148.8	1111.8	1097.0	1101.9	1138.9	1141.4
50°	12032.4	7489.1	1513.6	1272.0	1207.9	1111.8	1069.9	1055.1	1067.4	1106.9	1111.8
52.5°	13430.2	8438.2	1585.1	1274.5	1190.7	1089.6	1035.4	1013.2	1025.5	1057.6	1067.4
55°	15086.8	9626.4	1770.0	1284.3	1166.0	1077.3	1010.7	961.4	976.2	998.4	1000.9
57.5°	16777.8	11125.2	2095.4	1286.8	1146.3	1055.1	968.8	904.7	904.7	919.5	926.9
60°	18843.6	12757.2	2524.3	1289.3	1148.8	1023.0	912.1	840.6	830.8	838.2	840.6
62.5°	20894.7	14122.9	2595.8	1281.9	1173.4	991.0	850.5	776.5	759.3	756.8	751.9
65°	21799.4	13869.0	2127.4	1247.4	1200.5	971.3	801.2	714.9	685.3	675.5	675.5
67.5°	20325.2	11731.7	1599.9	1200.5	1183.3	951.5	754.3	663.1	628.6	608.9	608.9
69°	18939.8	10435.0	1437.2	1168.5	1138.9	919.5	724.8	636.0	594.1	571.9	564.5
70°	17869.9	9542.6	1368.2	1141.4	1097.0	882.5	702.6	616.3	569.5	544.8	539.9
72.5°	14260.9	7486.7	1198.1	1037.8	934.3	742.0	623.7	554.7	510.3	483.2	475.8
75°	8218.8	4057.6	993.5	902.2	751.9	576.8	527.5	483.2	448.7	424.0	416.6
77.5°	2529.2	1567.8	719.8	712.4	552.2	446.2	421.5	404.3	379.6	352.5	347.6
80°	1064.9	798.7	488.1	480.7	367.3	310.6	303.2	300.7	290.9	268.7	261.3
82.5°	584.2	451.1	340.2	295.8	221.9	180.0	187.4	189.8	182.4	160.2	145.4
85°	286.0	246.5	165.2	133.1	101.1	64.1	61.6	74.0	69.0	49.3	54.2
87.5°	56.7	69.0	44.4	19.7	9.9	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)