

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: P455941

Luminaire Tested: **GALN-SA7A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455941
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-SA7A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 25088 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 215
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

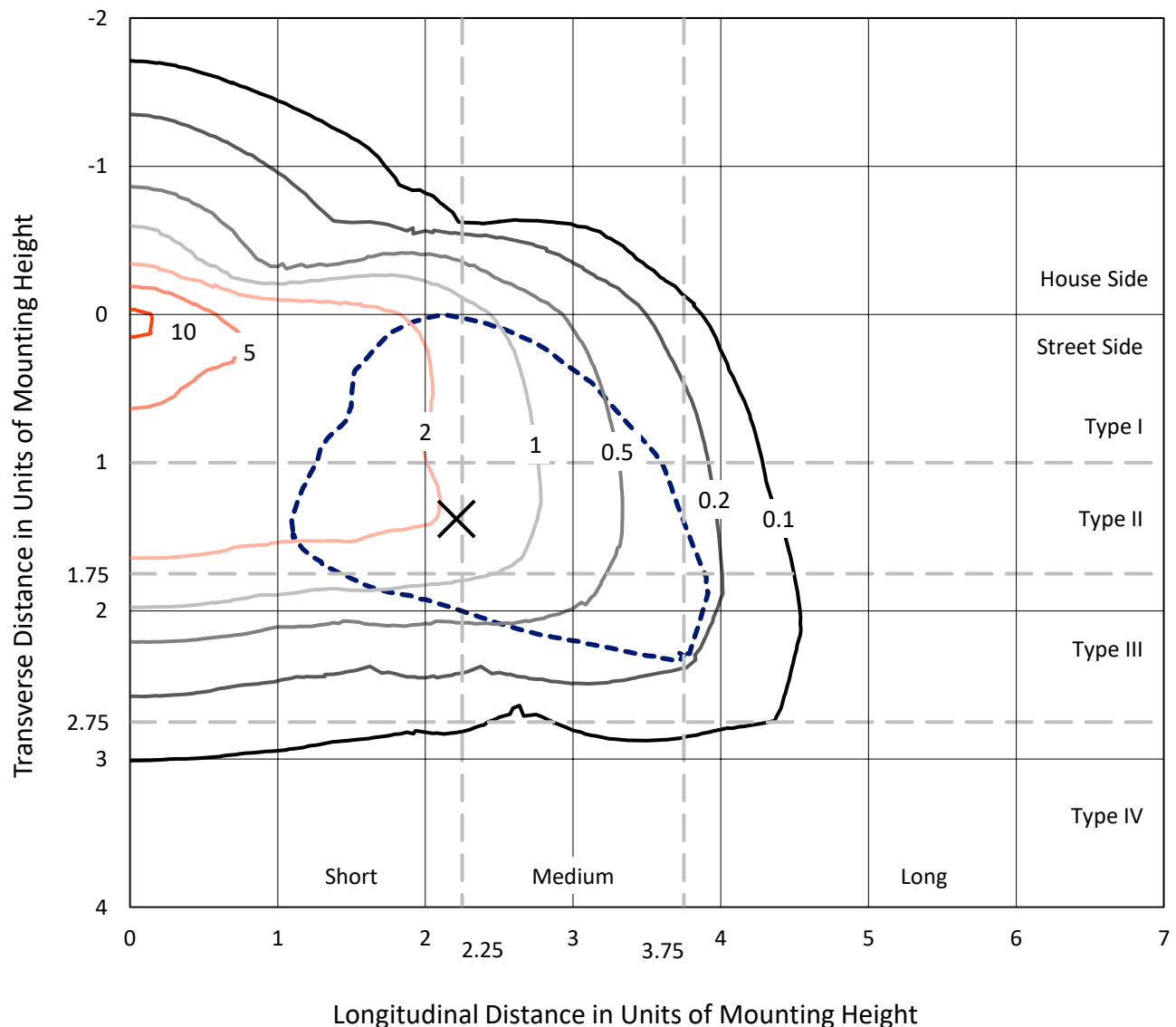


REPORT NUMBER: P455941

CATALOG NUMBER: GALN-SA7A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

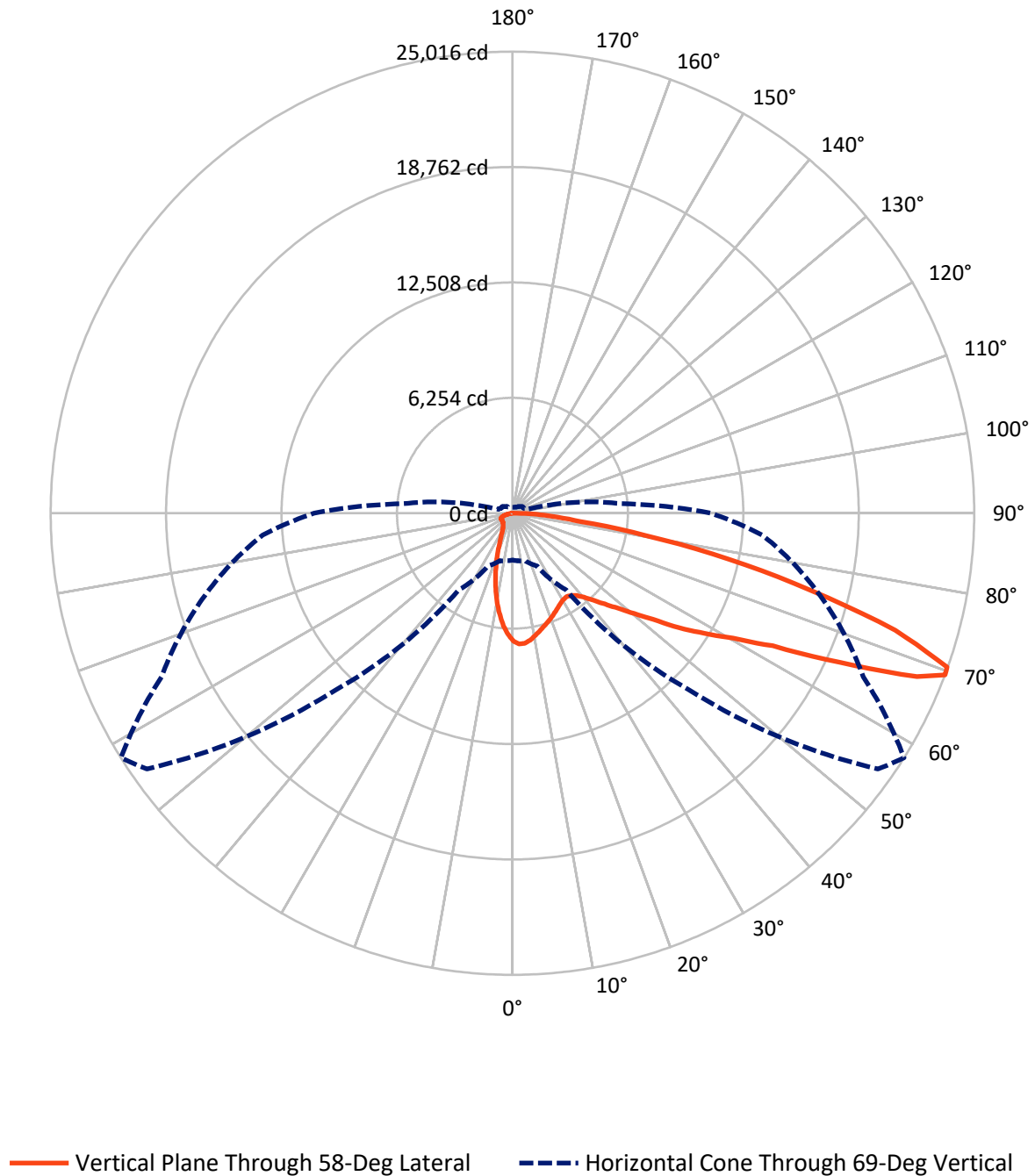


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

REPORT NUMBER: P455941

CATALOG NUMBER: GALN-SA7A-830-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3676.6	0.0	3676.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21411.4	0.0	21411.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	25088.0	0.0	25088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.8	2.3
10°-20°	1292.8	5.2
20°-30°	1670.4	6.7
30°-40°	2169.5	8.6
40°-50°	3154.1	12.6
50°-60°	5032.9	20.1
60°-70°	6723.3	26.8
70°-80°	3875.7	15.4
80°-90°	580.5	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°	25088.0	100.0
0°-180°	25088.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455941

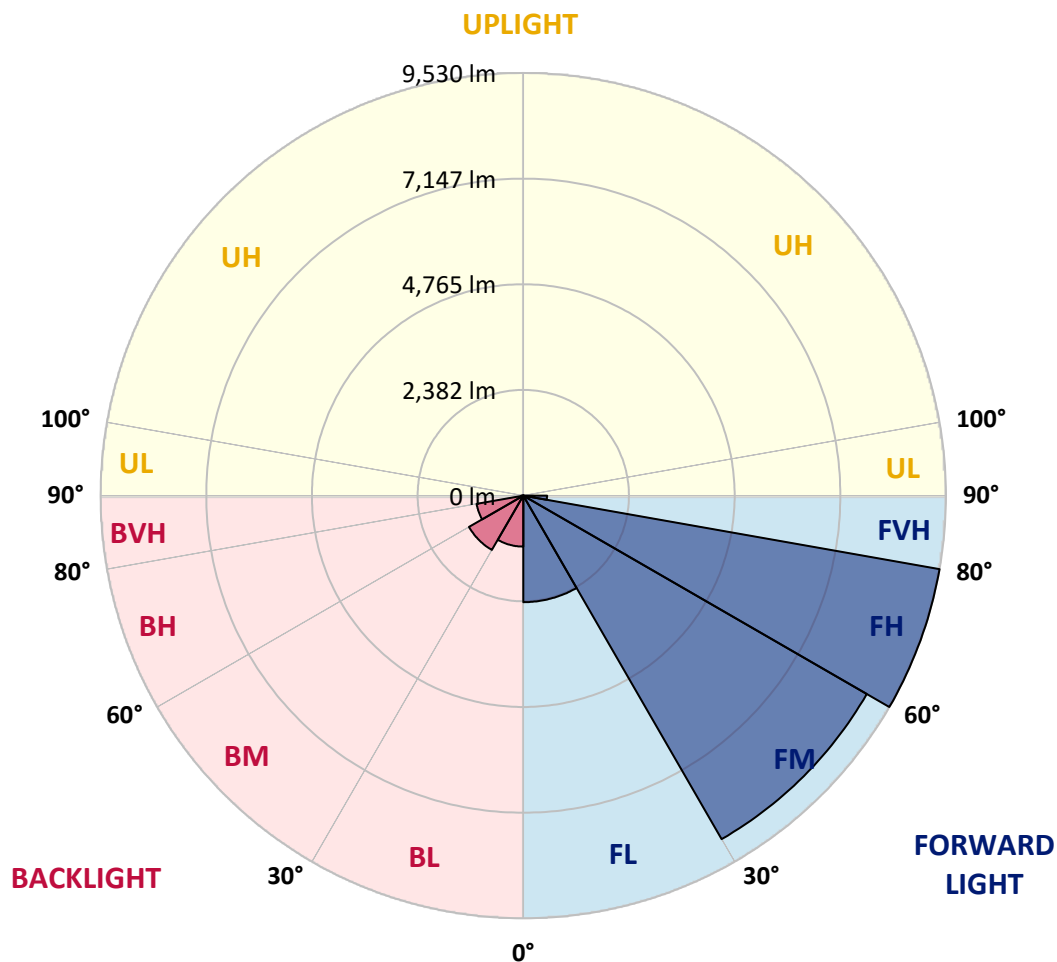
CATALOG NUMBER: GALN-SA7A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2402.8	9.6			
FM	(30°-60°)	8942.6	35.6			
FH	(60°-80°)	9530.0	38.0			G4/12000
FVH	(80°-90°)	536.0	2.1			G4/750
BL	(0°-30°)	1149.2	4.6	B3/2500		
BM	(30°-60°)	1413.9	5.6	B2/2500		
BH	(60°-80°)	1069.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	44.5	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-G4

Type III Short



REPORT NUMBER: P455941

CATALOG NUMBER: GALN-SA7A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9
2.5°	7190.3	7209.9	7204.3	7197.3	7186.1	7155.3	7105.0	7096.6	7064.4	6995.8	6910.5
5°	7079.8	7096.6	7098.0	7107.7	7121.7	7116.1	7079.8	7075.6	7028.0	6935.7	6792.9
7.5°	6700.6	6723.0	6772.0	6826.5	6875.5	6921.7	6932.9	6939.9	6910.5	6804.1	6613.8
10°	6273.8	6296.2	6318.6	6399.8	6520.1	6634.8	6730.0	6742.6	6749.6	6651.6	6419.4
12.5°	5800.9	5847.1	5894.7	6015.0	6175.9	6356.4	6524.3	6550.9	6598.5	6524.3	6251.5
15°	5399.4	5446.9	5515.5	5623.2	5817.7	6078.0	6314.4	6357.8	6451.5	6413.8	6094.8
17.5°	5120.9	5137.7	5185.3	5308.4	5518.3	5792.5	6108.7	6195.5	6345.2	6335.4	5960.4
20°	4901.3	4922.3	4951.6	5027.2	5245.5	5535.1	5917.1	6029.0	6231.9	6265.5	5827.5
22.5°	4808.9	4824.3	4820.1	4860.7	5009.0	5300.0	5722.6	5855.5	6131.1	6217.9	5704.4
25°	4814.5	4828.5	4807.5	4797.7	4885.9	5093.0	5519.7	5689.0	6050.0	6185.7	5592.5
27.5°	4908.3	4918.1	4878.9	4839.7	4846.7	4964.2	5351.8	5539.3	5981.4	6199.7	5498.7
30°	5034.2	5052.4	5027.2	4979.6	4927.9	4933.4	5244.1	5428.8	5949.2	6248.7	5453.9
32.5°	5196.5	5213.3	5202.1	5164.3	5097.2	5023.0	5217.5	5388.2	5952.0	6348.0	5444.1
35°	5367.2	5400.8	5419.0	5416.2	5361.6	5232.9	5322.4	5463.7	6019.2	6514.5	5501.5
37.5°	5560.3	5588.3	5666.6	5717.0	5666.6	5516.9	5558.9	5656.8	6167.5	6755.2	5627.4
40°	5747.8	5789.7	5904.5	6061.2	6041.6	5910.1	5919.9	5984.2	6429.2	7113.3	5873.7
42.5°	5943.6	5994.0	6194.1	6426.4	6472.5	6370.4	6397.0	6454.3	6801.3	7610.0	6296.2
45°	6195.5	6255.7	6501.9	6791.5	6973.4	6910.5	6986.0	7014.0	7299.4	8256.5	6853.1
47.5°	6520.1	6590.1	6893.7	7254.7	7512.1	7569.5	7701.0	7684.2	7916.5	9021.8	7575.1
50°	7067.2	7106.4	7393.2	7761.2	8115.1	8374.0	8516.7	8543.3	8681.8	9766.2	8382.4
52.5°	7717.8	7752.8	7959.8	8281.6	8725.2	9273.7	9626.2	9539.5	9573.1	10672.8	9326.8
55°	8449.5	8508.3	8639.8	8853.9	9429.0	10236.3	10944.3	10965.2	10593.1	11540.3	10232.1
57.5°	9016.2	9115.5	9340.8	9645.8	10374.8	11306.6	12258.1	12272.1	11796.3	12466.5	11231.1
60°	8730.8	8848.3	9363.2	10106.2	11615.9	13174.5	13827.9	13748.2	12967.4	13521.5	12449.8
62.5°	7499.5	7520.5	8269.1	9430.4	11997.8	15673.4	16164.5	15827.3	14530.3	14859.1	13688.0
65°	4853.7	4990.8	5584.1	7211.3	10742.8	17060.0	20258.5	19479.2	16721.4	16377.2	14724.8
67.5°	3064.2	3029.2	3275.4	4117.7	7389.0	15838.5	23752.2	23629.1	19586.9	17335.6	14477.1
69°	2540.9	2580.1	2664.0	3156.5	5084.6	13522.9	24165.0	25015.6	20976.3	17260.1	13577.5
70°	2304.4	2322.6	2410.8	2798.3	3923.3	11326.2	23487.8	24977.9	21521.9	16943.9	12925.5
72.5°	1828.7	1827.3	1978.4	2328.2	2932.6	6465.5	19286.1	21685.6	20911.9	15471.9	10679.8
75°	1389.4	1411.8	1578.3	1970.0	2701.8	3532.9	13458.6	16700.4	16701.8	12220.3	6664.2
77.5°	1001.8	1015.8	1210.3	1653.8	2545.1	2864.1	8964.4	11978.2	11260.5	5599.5	2094.5
80°	656.2	664.6	812.9	1309.6	2294.6	2701.8	5315.4	7331.6	5311.2	1485.9	692.6
82.5°	359.6	401.6	496.7	847.9	1841.3	2496.1	3230.7	3710.6	1992.4	661.8	361.0
85°	180.5	191.7	279.8	495.3	1203.3	2065.2	2249.9	2128.1	1028.4	328.8	187.5
87.5°	53.2	67.2	116.1	191.7	488.3	1076.0	1252.3	1123.5	396.0	118.9	39.2
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: P455941

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9	6932.9
2.5°	6875.5	6850.3	6738.4	6637.6	6545.3	6447.3	6364.8	6292.0	6299.0	6300.4	6226.3
5°	6718.8	6661.4	6448.7	6250.1	6082.2	5869.5	5687.6	5570.1	5511.3	5433.0	5460.9
7.5°	6506.1	6395.6	6100.4	5770.1	5460.9	5185.3	4885.9	4680.2	4548.7	4421.4	4438.1
10°	6286.4	6108.7	5679.2	5242.7	4842.5	4401.8	4019.8	3692.4	3448.9	3358.0	3297.8
12.5°	6061.2	5827.5	5281.8	4701.2	4148.5	3621.0	3079.6	2728.4	2459.7	2317.0	2335.2
15°	5855.5	5571.5	4867.7	4159.7	3441.9	2813.7	2273.6	1939.2	1751.8	1712.6	1735.0
17.5°	5665.2	5293.0	4480.1	3633.6	2795.5	2109.9	1708.4	1519.5	1443.9	1422.9	1421.5
20°	5469.3	5056.6	4045.0	3071.2	2178.5	1635.6	1402.0	1313.8	1299.8	1308.2	1309.6
22.5°	5270.6	4764.2	3597.2	2512.9	1735.0	1337.6	1225.7	1201.9	1213.1	1232.7	1235.5
25°	5087.4	4506.7	3166.3	2023.2	1385.2	1175.3	1120.7	1120.7	1145.9	1175.3	1176.7
27.5°	4936.2	4257.7	2736.8	1606.2	1159.9	1057.8	1039.6	1049.4	1084.4	1106.7	1108.1
30°	4811.7	4025.4	2331.0	1287.2	1020.0	964.0	959.8	976.6	1001.8	1022.8	1024.2
32.5°	4718.0	3821.1	1951.8	1081.6	923.4	892.7	891.3	903.9	917.9	923.4	929.0
35°	4681.6	3651.8	1604.8	951.4	859.1	839.5	839.5	838.1	843.7	846.5	849.3
37.5°	4711.0	3521.7	1336.2	867.5	811.5	797.5	789.1	780.7	777.9	777.9	779.3
40°	4835.5	3453.1	1136.1	812.9	777.9	756.9	741.6	731.8	722.0	724.8	727.6
42.5°	5100.0	3465.7	1000.4	776.5	748.6	719.2	696.8	685.6	678.6	687.0	685.6
45°	5521.1	3591.7	913.7	751.4	719.2	681.4	660.4	649.2	649.2	661.8	666.0
47.5°	6110.1	3832.3	867.5	731.8	696.8	652.0	631.0	622.6	625.4	646.4	647.8
50°	6829.3	4250.7	859.1	722.0	685.6	631.0	607.2	598.8	605.8	628.2	631.0
52.5°	7622.6	4789.3	899.7	723.4	675.8	618.4	587.6	575.1	582.1	600.2	605.8
55°	8562.9	5463.7	1004.6	729.0	661.8	611.4	573.7	545.7	554.1	566.7	568.1
57.5°	9522.7	6314.4	1189.3	730.4	650.6	598.8	549.9	513.5	513.5	521.9	526.1
60°	10695.2	7240.7	1432.7	731.8	652.0	580.7	517.7	477.1	471.5	475.7	477.1
62.5°	11859.3	8015.8	1473.3	727.6	666.0	562.5	482.7	440.7	430.9	429.5	426.7
65°	12372.8	7871.7	1207.5	708.0	681.4	551.3	454.7	405.8	389.0	383.4	383.4
67.5°	11536.1	6658.6	908.1	681.4	671.6	540.1	428.1	376.4	356.8	345.6	345.6
69°	10749.8	5922.7	815.7	663.2	646.4	521.9	411.4	361.0	337.2	324.6	320.4
70°	10142.5	5416.2	776.5	647.8	622.6	500.9	398.8	349.8	323.2	309.2	306.4
72.5°	8094.2	4249.3	680.0	589.0	530.3	421.1	354.0	314.8	289.6	274.2	270.0
75°	4664.8	2303.0	563.9	512.1	426.7	327.4	299.4	274.2	254.6	240.7	236.5
77.5°	1435.5	889.9	408.6	404.4	313.4	253.2	239.3	229.5	215.5	200.1	197.3
80°	604.4	453.3	277.0	272.8	208.5	176.3	172.1	170.7	165.1	152.5	148.3
82.5°	331.6	256.0	193.1	167.9	125.9	102.1	106.3	107.7	103.5	90.9	82.6
85°	162.3	139.9	93.7	75.6	57.4	36.4	35.0	42.0	39.2	28.0	30.8
87.5°	32.2	39.2	25.2	11.2	5.6	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)