

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: P270013

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-AFL-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11072.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

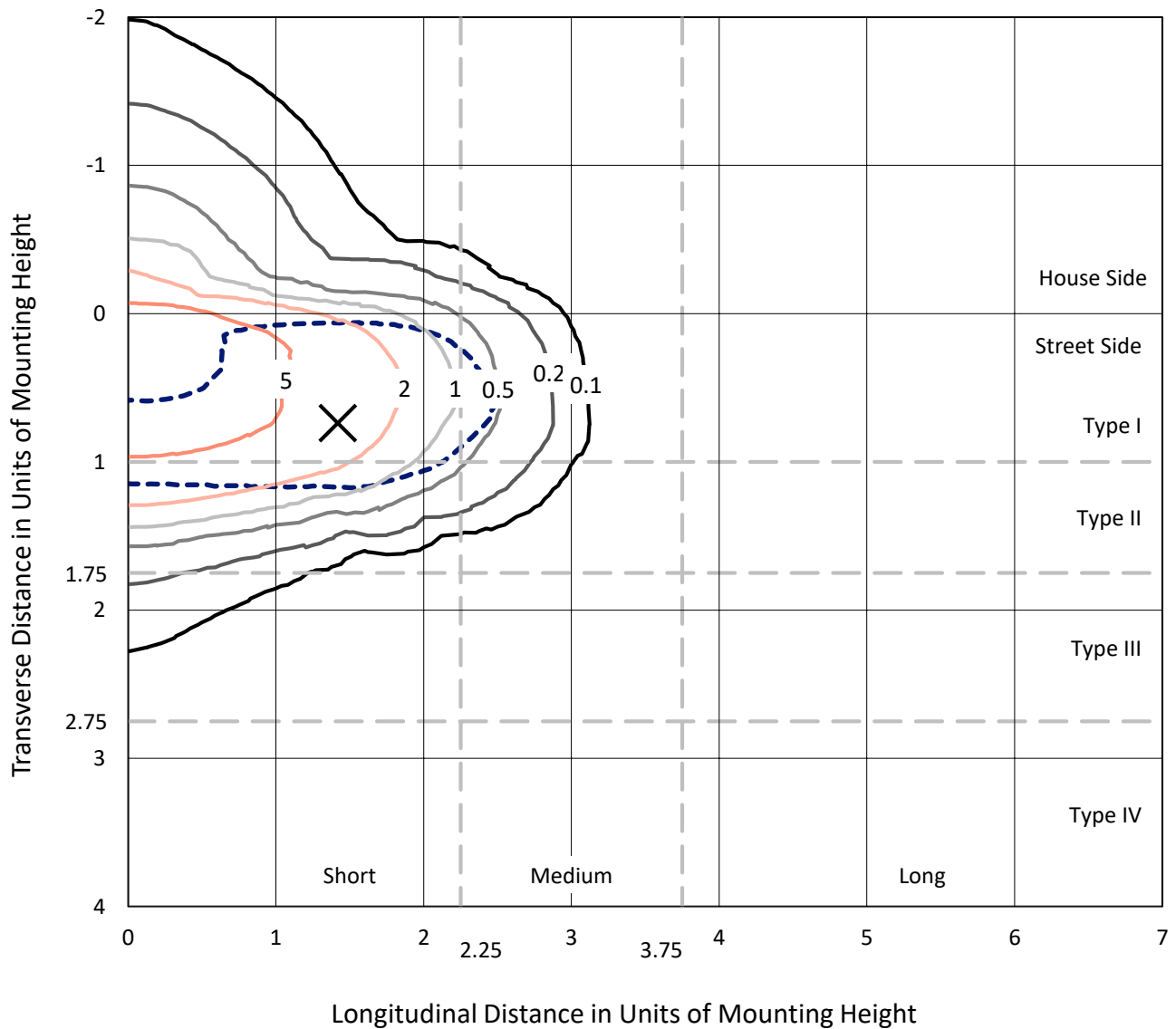
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

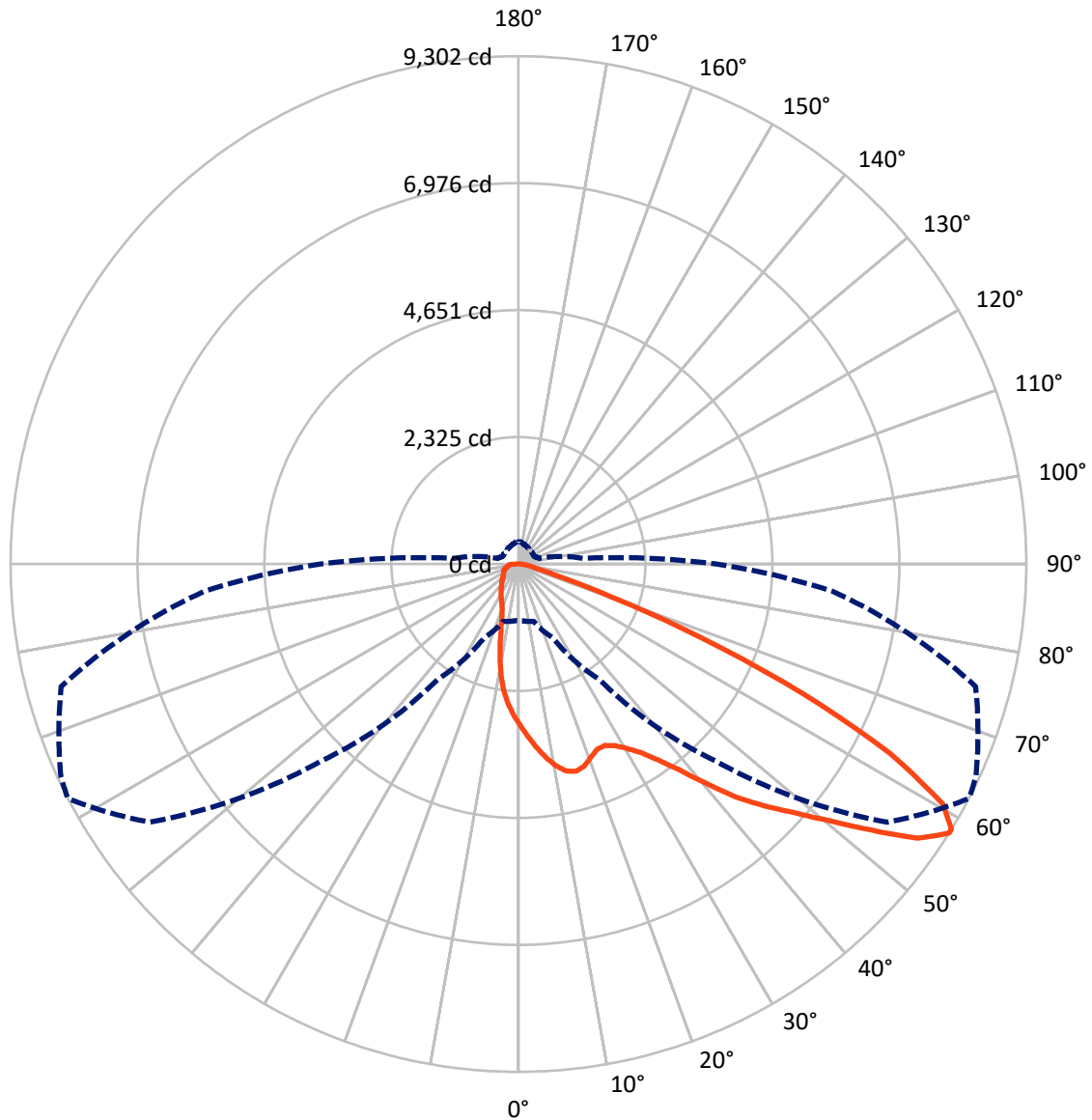
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.5	0.0	1688.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9383.6	0.0	9383.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	11072.1	0.0	11072.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	2.4
10°-20°	672.4	6.1
20°-30°	1086.9	9.8
30°-40°	1725.4	15.6
40°-50°	2524.7	22.8
50°-60°	2640.6	23.8
60°-70°	1560.1	14.1
70°-80°	439.5	4.0
80°-90°	159.6	1.4
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°	11072.1	100.0
0°-180°	11072.1	100.0



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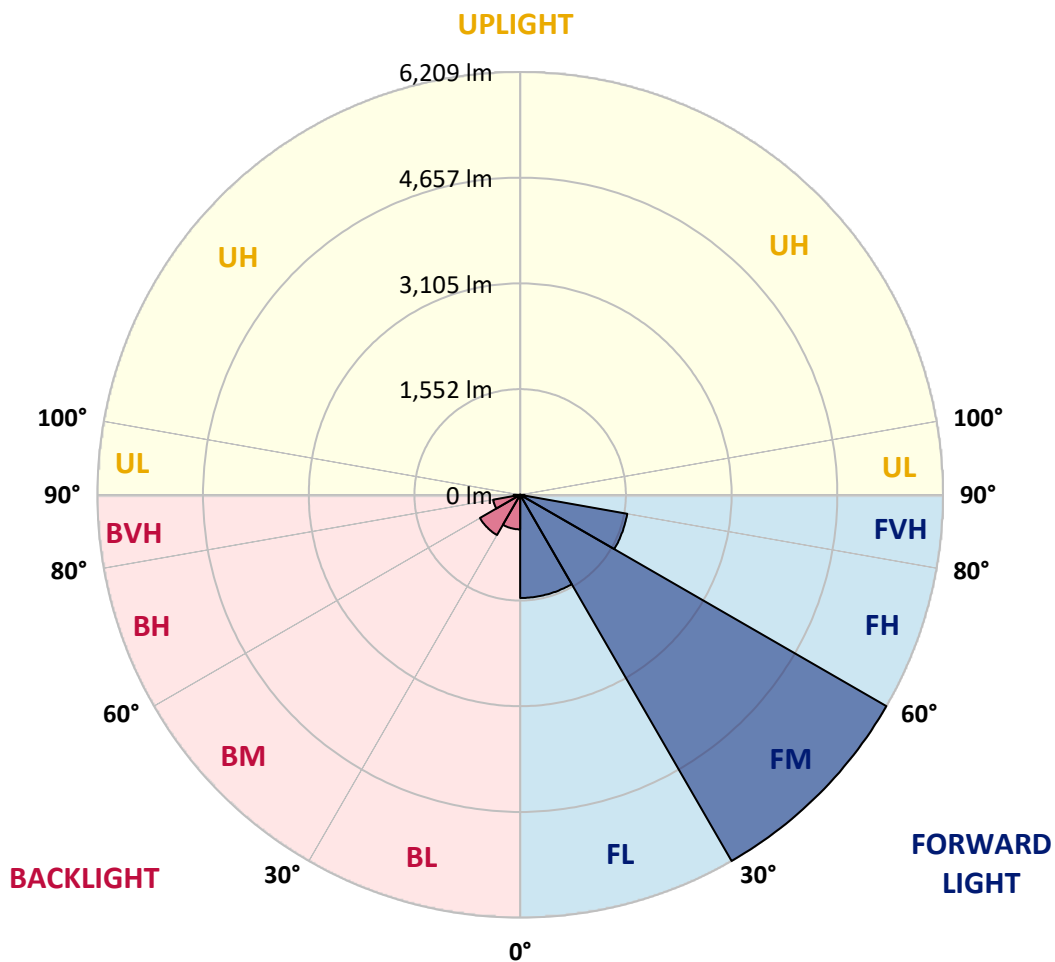
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.8	13.7			
FM	(30°-60°)	6209.2	56.1			
FH	(60°-80°)	1596.7	14.4			G1/1800
FVH	(80°-90°)	62.9	0.6			G1/100
BL	(0°-30°)	507.5	4.6	B2/1000		
BM	(30°-60°)	681.5	6.2	B1/1000		
BH	(60°-80°)	402.9	3.6	B1/500		G1/500
BVH	(80°-90°)	96.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	3360.7	3333.7	3316.5	3301.4	3281.5	3239.3	3182.4	3146.6	3128.3	3066.3	2992.8
5°	3690.2	3666.3	3648.6	3628.3	3592.9	3526.6	3434.8	3361.8	3325.9	3201.7	3054.7
7.5°	3613.2	3623.0	3653.8	3707.5	3753.4	3744.6	3662.7	3569.9	3522.4	3349.8	3126.7
10°	3148.1	3165.3	3218.4	3344.1	3547.4	3756.1	3819.7	3755.5	3707.5	3496.4	3200.8
12.5°	3054.7	3054.1	3058.4	3091.7	3212.7	3506.3	3824.9	3889.4	3860.7	3636.1	3276.3
15°	3092.9	3093.9	3090.7	3104.8	3142.4	3258.6	3665.3	3941.0	3961.4	3776.8	3354.5
17.5°	3192.8	3190.3	3178.4	3178.4	3191.9	3237.2	3477.6	3893.2	3986.9	3901.5	3423.4
20°	3360.7	3348.8	3317.0	3287.7	3273.2	3297.7	3400.4	3782.6	3942.7	4010.5	3480.2
22.5°	3564.1	3554.8	3503.1	3440.6	3389.9	3389.5	3440.0	3686.1	3865.9	4113.1	3528.2
25°	3826.9	3811.8	3735.2	3635.0	3546.4	3512.6	3526.6	3681.4	3824.3	4224.6	3570.9
27.5°	4135.5	4107.9	4017.2	3872.8	3742.3	3674.2	3653.8	3766.5	3862.4	4362.9	3630.3
30°	4509.9	4478.1	4361.8	4173.6	3989.6	3877.4	3834.1	3917.1	3988.6	4531.3	3725.7
32.5°	4935.8	4890.0	4755.4	4547.9	4306.0	4135.0	4064.7	4116.3	4173.0	4734.1	3845.1
35°	5524.4	5469.7	5275.2	4989.0	4715.8	4480.7	4368.1	4405.6	4461.0	5036.4	4017.7
37.5°	5925.9	5901.4	5772.1	5503.0	5205.9	4935.4	4761.1	4783.0	4814.3	5414.4	4238.8
40°	5922.3	5932.1	5934.8	5937.3	5735.0	5476.0	5288.9	5265.9	5259.7	5829.6	4490.1
42.5°	5625.6	5666.2	5797.8	6064.1	6187.2	6068.3	5896.7	5830.4	5797.8	6318.6	4756.4
45°	5171.5	5193.5	5439.4	5959.9	6418.7	6654.9	6525.0	6316.4	6257.1	6768.0	4977.6
47.5°	4937.4	4961.3	5116.2	5683.4	6416.1	7128.8	7203.9	6806.5	6700.2	7159.0	5168.4
50°	4380.0	4430.1	4625.2	5202.9	6182.0	7346.7	7913.3	7390.4	7170.5	7539.7	5359.7
52.5°	3356.5	3433.9	3652.1	4412.4	5588.0	7238.7	8481.2	8098.5	7787.8	7933.8	5523.9
55°	2117.3	2174.6	2358.2	3116.3	4470.2	6677.2	8696.5	8864.5	8588.1	8307.0	5666.2
57.5°	1151.2	1176.7	1245.6	1720.6	2907.8	5435.9	8382.7	9300.3	9185.6	8624.1	5773.6
58°	1030.3	1047.5	1090.3	1491.1	2578.8	5096.4	8243.4	9301.9	9244.5	8670.5	5782.0
60°	764.4	755.5	717.3	850.9	1435.3	3520.8	7401.9	8929.6	9098.0	8727.4	5741.3
62.5°	671.6	650.2	572.5	563.5	698.2	1622.0	5663.8	7649.1	8046.8	8402.9	5494.3
65°	630.9	608.0	507.8	475.6	503.7	686.1	3336.2	5736.7	6235.7	7419.7	4862.3
67.5°	600.6	571.0	466.6	422.4	424.4	453.6	1337.3	3613.2	4174.7	5633.5	3782.0
70°	571.4	539.2	431.6	380.6	368.7	358.8	531.7	1808.6	2318.0	3558.4	2411.4
72.5°	540.2	508.4	401.0	347.7	324.3	291.4	347.3	739.8	1033.4	1683.6	1093.9
75°	494.7	466.1	370.2	318.5	285.2	241.5	262.2	386.4	463.4	670.5	527.1
77.5°	439.0	415.6	335.7	294.6	252.9	196.0	201.8	268.0	297.2	383.8	313.4
80°	315.5	323.7	298.7	264.9	225.2	159.0	154.9	195.6	211.1	246.7	203.8
82.5°	221.6	226.3	247.2	216.4	186.0	125.1	114.2	137.6	147.1	162.1	110.0
85°	152.7	147.5	169.4	150.6	134.6	83.5	78.2	93.3	99.1	100.6	56.9
87.5°	91.7	91.7	98.1	80.8	72.5	43.3	42.2	53.2	56.9	54.2	31.4
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°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	2948.9	2911.9	2833.2	2770.1	2690.3	2607.4	2561.0	2511.4	2477.5	2453.1	2492.2
5°	2971.4	2895.7	2733.1	2578.8	2408.3	2231.0	2096.5	1971.3	1884.3	1830.0	1881.1
7.5°	3006.7	2890.4	2631.3	2367.6	2061.5	1766.3	1502.7	1337.3	1240.9	1193.4	1223.1
10°	3047.4	2882.1	2512.0	2081.4	1643.4	1271.6	1074.6	1007.8	985.9	977.0	981.2
12.5°	3081.4	2864.4	2365.4	1735.2	1234.1	1004.1	947.4	945.7	950.4	951.6	953.1
15°	3105.4	2838.4	2148.0	1374.3	987.0	915.1	911.9	921.3	930.1	933.8	935.9
17.5°	3121.5	2784.7	1902.5	1086.5	884.2	871.7	879.0	890.9	900.5	903.1	905.1
20°	3120.0	2706.0	1610.0	906.1	828.4	828.4	841.0	850.3	850.9	847.8	849.3
22.5°	3103.7	2598.0	1326.3	810.2	778.9	787.9	800.3	791.4	754.9	731.0	732.6
25°	3076.7	2469.3	1083.4	749.2	733.0	748.6	745.1	678.3	626.2	602.8	602.8
27.5°	3052.6	2317.0	896.8	696.0	687.2	706.4	641.7	581.4	559.5	548.4	544.8
30°	3035.5	2152.8	772.2	645.0	643.8	629.8	556.8	540.2	536.5	527.7	524.5
32.5°	3039.7	1986.4	692.4	600.1	603.8	539.2	516.2	519.8	516.6	507.4	503.1
35°	3074.0	1828.5	640.2	559.5	548.4	487.1	492.2	499.0	497.9	484.8	480.8
37.5°	3135.5	1678.8	605.8	525.6	478.6	460.9	469.3	479.6	477.1	468.1	465.1
40°	3200.2	1538.1	577.7	499.0	437.5	443.1	450.5	456.2	458.9	461.4	459.4
42.5°	3263.4	1391.0	543.3	471.8	420.2	426.4	429.6	435.4	449.4	459.4	458.9
45°	3300.8	1252.9	507.8	433.3	406.7	410.3	408.2	419.7	436.9	453.0	453.6
47.5°	3342.6	1145.5	479.6	397.8	393.6	396.2	390.0	401.5	417.2	436.9	439.0
50°	3393.1	1081.3	457.2	369.7	375.9	375.9	374.4	384.7	406.7	429.6	433.8
52.5°	3450.5	1068.9	438.5	349.4	358.2	357.6	359.2	374.9	398.8	421.2	424.9
55°	3520.3	1102.7	418.2	334.2	340.9	343.1	348.3	366.0	386.4	412.0	413.5
57.5°	3601.7	1171.5	402.0	322.2	325.4	332.2	340.5	356.5	378.5	406.7	408.2
58°	3615.1	1186.1	399.3	321.1	322.2	330.0	339.4	355.1	377.0	407.7	409.3
60°	3615.8	1234.6	393.6	316.5	310.3	323.3	333.7	349.4	374.4	411.3	414.9
62.5°	3487.5	1234.1	389.4	309.6	297.7	313.9	325.8	344.1	371.8	420.2	427.6
65°	3070.9	1121.4	369.7	299.2	287.7	305.6	319.1	340.5	379.1	458.9	463.4
67.5°	2402.0	919.1	332.6	284.7	274.7	297.2	314.9	340.0	386.9	467.7	470.8
70°	1588.2	687.7	291.9	268.0	261.1	287.3	317.0	357.6	377.9	449.0	440.6
72.5°	824.3	482.7	259.2	247.2	245.5	278.5	347.3	355.5	369.2	422.4	412.0
75°	432.8	335.2	230.4	224.1	226.8	276.3	409.7	346.1	357.6	404.1	423.9
77.5°	264.9	270.6	205.9	203.3	208.5	270.1	409.3	334.2	340.9	371.8	393.6
80°	177.2	219.5	187.1	187.7	191.3	247.2	367.5	315.5	320.6	351.3	373.9
82.5°	112.1	129.8	170.0	178.9	174.1	203.8	312.3	287.3	294.6	402.0	424.9
85°	56.9	81.3	147.5	172.0	156.9	142.9	253.4	251.9	255.5	290.0	302.9
87.5°	26.1	44.8	115.3	150.1	118.3	89.1	184.1	186.7	201.2	205.9	205.9
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)