

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: P270018

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270018
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-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12145.8 lumens
Efficiency: N/A
Efficacy: 94.2 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 - G2

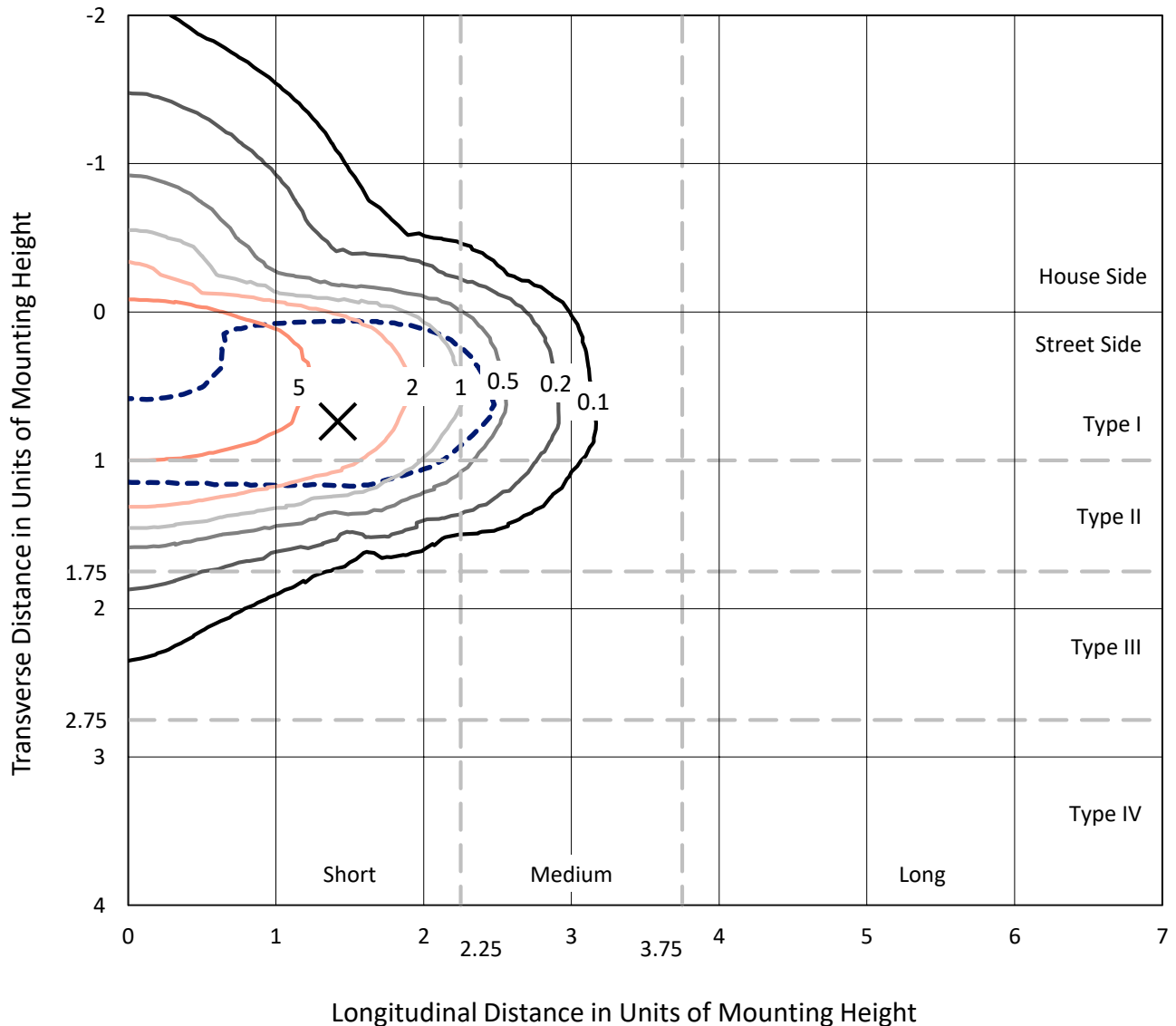
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

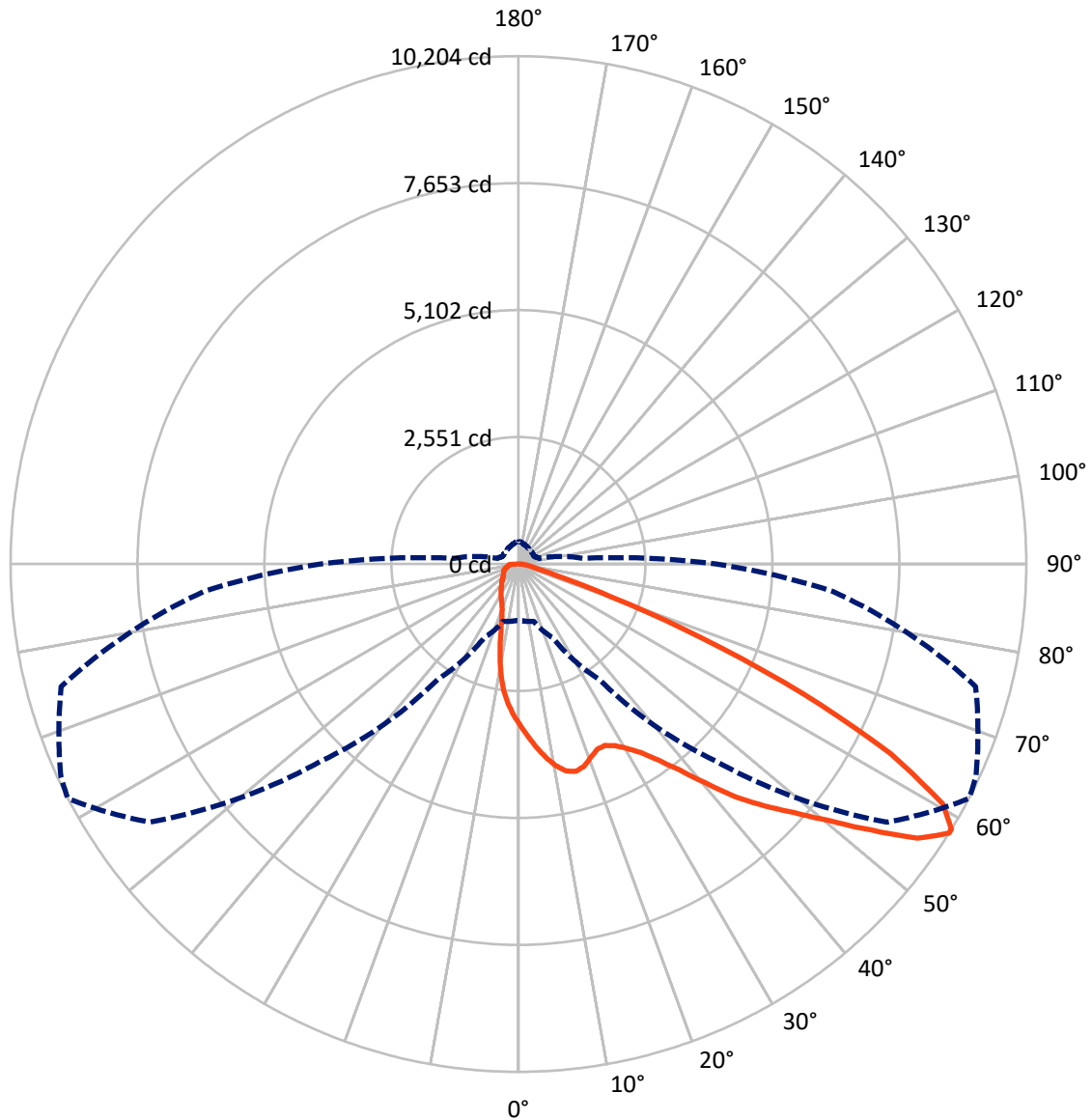
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	1852.3	0.0	1852.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10293.5	0.0	10293.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	12145.8	0.0	12145.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	2.4
10°-20°	737.6	6.1
20°-30°	1192.3	9.8
30°-40°	1892.8	15.6
40°-50°	2769.5	22.8
50°-60°	2896.7	23.8
60°-70°	1711.4	14.1
70°-80°	482.1	4.0
80°-90°	175.0	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°	12145.8	100.0
0°-180°	12145.8	100.0

Coefficient of Utilization



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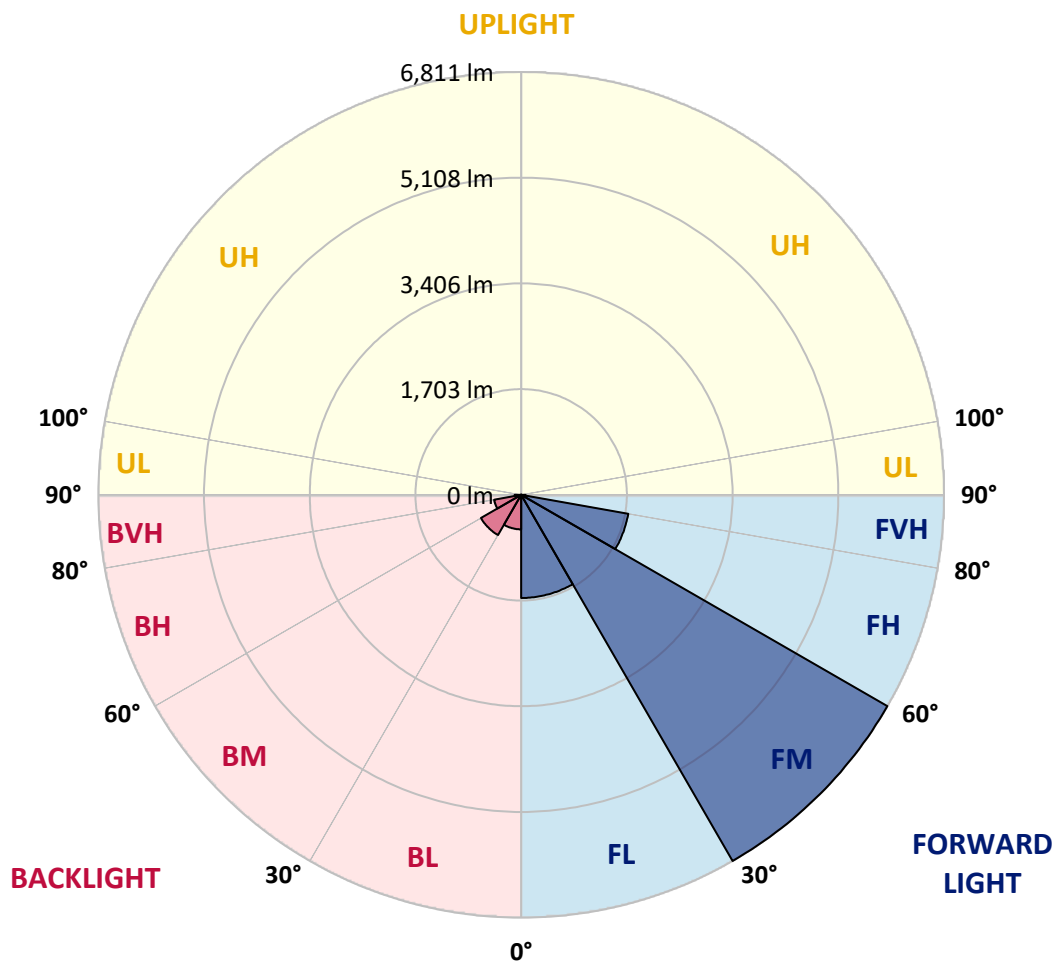
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1661.7	13.7			
FM	(30°-60°)	6811.3	56.1			
FH	(60°-80°)	1751.5	14.4			G1/1800
FVH	(80°-90°)	69.0	0.6			G1/100
BL	(0°-30°)	556.7	4.6	B2/1000		
BM	(30°-60°)	747.6	6.2	B1/1000		
BH	(60°-80°)	442.0	3.6	B1/500		G1/500
BVH	(80°-90°)	106.0	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4
2.5°	3686.7	3657.0	3638.0	3621.4	3599.8	3553.4	3491.2	3451.6	3431.6	3363.6	3282.9
5°	4048.1	4021.8	4002.4	3980.1	3941.3	3868.6	3767.9	3687.8	3648.3	3512.3	3350.9
7.5°	3963.5	3974.5	4008.1	4067.0	4117.4	4107.7	4017.8	3916.0	3864.0	3674.6	3429.9
10°	3453.4	3472.2	3530.6	3668.4	3891.5	4120.3	4190.1	4119.6	4067.0	3835.5	3511.1
12.5°	3350.9	3350.4	3355.0	3391.6	3524.3	3846.3	4195.8	4266.6	4235.1	3988.7	3594.1
15°	3392.7	3393.8	3390.5	3405.8	3447.1	3574.5	4020.8	4323.3	4345.6	4143.2	3679.8
17.5°	3502.5	3499.6	3486.5	3486.5	3501.5	3551.2	3814.8	4270.6	4373.6	4279.9	3755.4
20°	3686.7	3673.6	3638.7	3606.7	3590.6	3617.6	3730.1	4149.5	4325.0	4399.3	3817.6
22.5°	3909.8	3899.5	3842.8	3774.1	3718.8	3718.2	3773.6	4043.6	4240.9	4511.9	3870.3
25°	4198.0	4181.4	4097.3	3987.5	3890.3	3853.1	3868.6	4038.4	4195.2	4634.4	3917.1
27.5°	4536.6	4506.3	4406.7	4248.4	4105.3	4030.4	4008.1	4131.7	4236.9	4786.0	3982.4
30°	4947.2	4912.3	4784.8	4578.3	4376.5	4253.5	4206.0	4297.0	4375.4	4970.7	4087.1
32.5°	5414.5	5364.1	5216.6	4988.9	4723.6	4536.0	4458.7	4515.4	4577.9	5193.2	4218.0
35°	6060.2	6000.1	5786.8	5472.8	5173.2	4915.3	4791.6	4832.8	4893.4	5524.8	4407.4
37.5°	6500.7	6473.7	6332.0	6036.8	5710.7	5413.9	5222.9	5246.9	5281.2	5939.6	4649.8
40°	6496.6	6507.5	6510.3	6513.3	6291.3	6007.1	5801.8	5776.6	5769.8	6394.9	4925.5
42.5°	6171.1	6215.8	6359.9	6652.2	6787.1	6656.8	6468.5	6395.9	6359.9	6931.3	5217.7
45°	5673.1	5697.1	5967.0	6537.9	7041.2	7300.2	7157.8	6928.9	6863.8	7424.3	5460.3
47.5°	5416.2	5442.6	5612.4	6234.6	7038.2	7820.0	7902.4	7466.6	7349.9	7853.3	5669.7
50°	4804.9	4859.7	5073.6	5707.3	6781.5	8059.1	8680.9	8107.3	7865.9	8270.8	5879.4
52.5°	3682.2	3766.8	4006.4	4840.2	6130.0	7940.7	9303.7	8883.9	8543.1	8703.1	6059.6
55°	2322.7	2385.5	2586.8	3418.5	4903.8	7324.8	9539.9	9724.1	9421.0	9112.6	6215.8
57.5°	1262.8	1290.9	1366.3	1887.3	3189.7	5962.9	9195.6	10202.2	10076.4	9460.4	6333.6
58°	1130.2	1149.0	1196.0	1635.8	2828.9	5590.7	9042.9	10203.8	10141.0	9511.3	6342.8
60°	838.5	828.7	786.9	933.3	1574.5	3862.4	8119.8	9795.6	9980.3	9573.6	6298.1
62.5°	736.7	713.3	627.9	618.3	765.9	1779.4	6212.9	8390.9	8827.3	9217.9	6027.1
65°	692.1	666.9	557.0	521.6	552.5	752.7	3659.9	6293.0	6840.4	8139.3	5333.9
67.5°	658.8	626.3	511.9	463.3	465.5	497.7	1467.0	3963.5	4579.5	6179.8	4148.8
70°	626.8	591.4	473.5	417.5	404.3	393.5	583.4	1984.0	2542.8	3903.4	2645.1
72.5°	592.5	557.7	439.8	381.5	355.8	319.6	380.9	811.6	1133.7	1846.7	1200.0
75°	542.8	511.3	406.0	349.4	312.9	264.8	287.6	423.8	508.4	735.5	578.1
77.5°	481.6	455.8	368.3	323.1	277.3	215.1	221.3	293.9	326.1	420.9	343.7
80°	346.0	355.2	327.7	290.5	247.0	174.5	169.9	214.4	231.7	270.5	223.6
82.5°	243.1	248.2	271.1	237.3	204.2	137.4	125.3	150.9	161.2	177.9	120.7
85°	167.5	161.9	185.9	165.3	147.5	91.4	85.8	102.3	108.7	110.4	62.3
87.5°	100.7	100.7	107.5	88.7	79.5	47.5	46.4	58.3	62.3	59.5	34.3
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°	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4	3226.4
2.5°	3234.8	3194.3	3107.9	3038.6	2951.2	2860.3	2809.4	2755.0	2717.8	2691.0	2733.8
5°	3259.5	3176.5	2998.2	2828.9	2641.7	2447.3	2299.8	2162.5	2067.0	2007.5	2063.5
7.5°	3298.3	3170.7	2886.6	2597.2	2261.5	1937.7	1648.3	1467.0	1361.2	1309.2	1341.8
10°	3343.0	3161.7	2755.6	2283.1	1802.8	1395.0	1178.8	1105.5	1081.5	1071.8	1076.3
12.5°	3380.1	3142.2	2594.8	1903.4	1353.7	1101.5	1039.2	1037.5	1042.7	1043.8	1045.4
15°	3406.5	3113.6	2356.3	1507.6	1082.6	1003.8	1000.4	1010.7	1020.4	1024.3	1026.7
17.5°	3424.2	3054.6	2087.0	1192.0	970.0	956.2	964.3	977.4	987.7	990.7	992.8
20°	3422.5	2968.4	1766.2	994.1	908.8	908.8	922.5	932.8	933.3	929.9	931.7
22.5°	3404.8	2850.0	1455.1	888.9	854.5	864.2	878.0	868.2	828.1	801.8	803.5
25°	3375.0	2708.7	1188.5	821.9	804.2	821.3	817.3	744.1	686.9	661.2	661.2
27.5°	3348.7	2541.7	983.7	763.5	753.8	775.0	704.0	637.6	613.7	601.7	597.7
30°	3329.7	2361.6	847.0	707.4	706.3	690.8	610.8	592.5	588.5	578.8	575.4
32.5°	3334.4	2179.1	759.5	658.3	662.3	591.4	566.2	570.2	566.8	556.5	551.9
35°	3372.1	2005.7	702.4	613.7	601.7	534.2	539.9	547.3	546.2	531.8	527.3
37.5°	3439.6	1841.6	664.6	576.5	525.0	505.6	514.8	526.1	523.4	513.7	510.1
40°	3510.5	1687.1	633.8	547.3	479.9	486.2	494.2	500.4	503.3	506.1	503.9
42.5°	3579.7	1526.0	595.9	517.7	461.0	467.8	471.3	477.5	493.0	503.9	503.3
45°	3620.9	1374.3	557.0	475.3	446.1	450.1	447.9	460.4	479.2	497.0	497.7
47.5°	3666.7	1256.5	526.1	436.3	431.8	434.7	427.9	440.3	457.5	479.2	481.6
50°	3722.1	1186.2	501.7	405.6	412.3	412.3	410.6	422.2	446.1	471.3	475.8
52.5°	3785.1	1172.5	481.0	383.1	392.9	392.4	394.0	411.2	437.6	462.1	466.1
55°	3861.8	1209.7	458.7	366.6	374.1	376.3	382.0	401.5	423.8	451.8	453.6
57.5°	3950.9	1285.1	441.0	353.5	356.8	364.4	373.4	391.2	415.2	446.1	447.9
58°	3965.7	1301.1	438.2	352.3	353.5	362.0	372.3	389.4	413.5	447.3	449.0
60°	3966.3	1354.4	431.8	347.1	340.3	354.7	366.0	383.1	410.6	451.3	455.4
62.5°	3825.7	1353.7	427.2	339.6	326.5	344.3	357.4	377.5	407.8	461.0	468.9
65°	3368.7	1230.1	405.6	328.3	315.8	335.2	350.0	373.4	415.7	503.3	508.4
67.5°	2634.9	1008.3	364.9	312.3	301.4	326.1	345.5	372.8	424.4	513.0	516.4
70°	1742.2	754.3	320.2	293.9	286.5	315.1	347.7	392.4	414.7	492.5	483.3
72.5°	904.2	529.6	284.3	271.1	269.4	305.5	380.9	390.0	405.0	463.3	451.8
75°	474.8	367.8	252.9	246.0	248.8	303.1	449.5	379.8	392.4	443.3	465.1
77.5°	290.5	296.8	226.0	223.0	228.8	296.4	449.0	366.6	374.1	407.8	431.8
80°	194.5	240.7	205.4	205.9	209.9	271.1	403.2	346.0	351.7	385.6	410.0
82.5°	123.0	142.4	186.5	196.2	191.0	223.6	342.7	315.1	323.1	441.0	466.1
85°	62.3	89.2	161.9	188.7	172.1	156.8	277.9	276.3	280.2	318.0	332.4
87.5°	28.6	49.1	126.4	164.7	129.8	97.7	201.8	204.8	220.8	226.0	226.0
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)