

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: P199938

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199938
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13520.8 lumens
Efficiency: N/A
Efficacy: 104.8 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

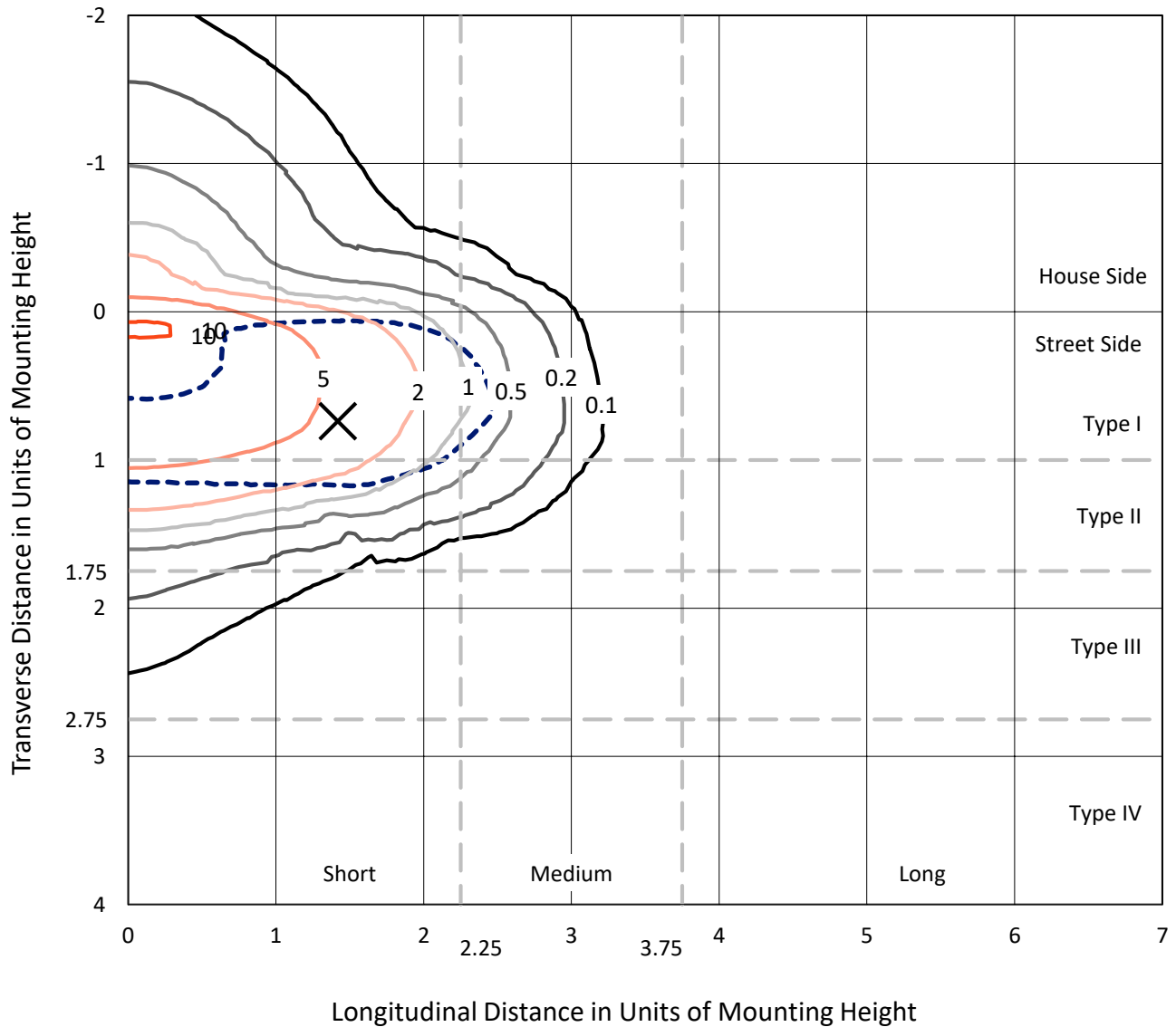
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

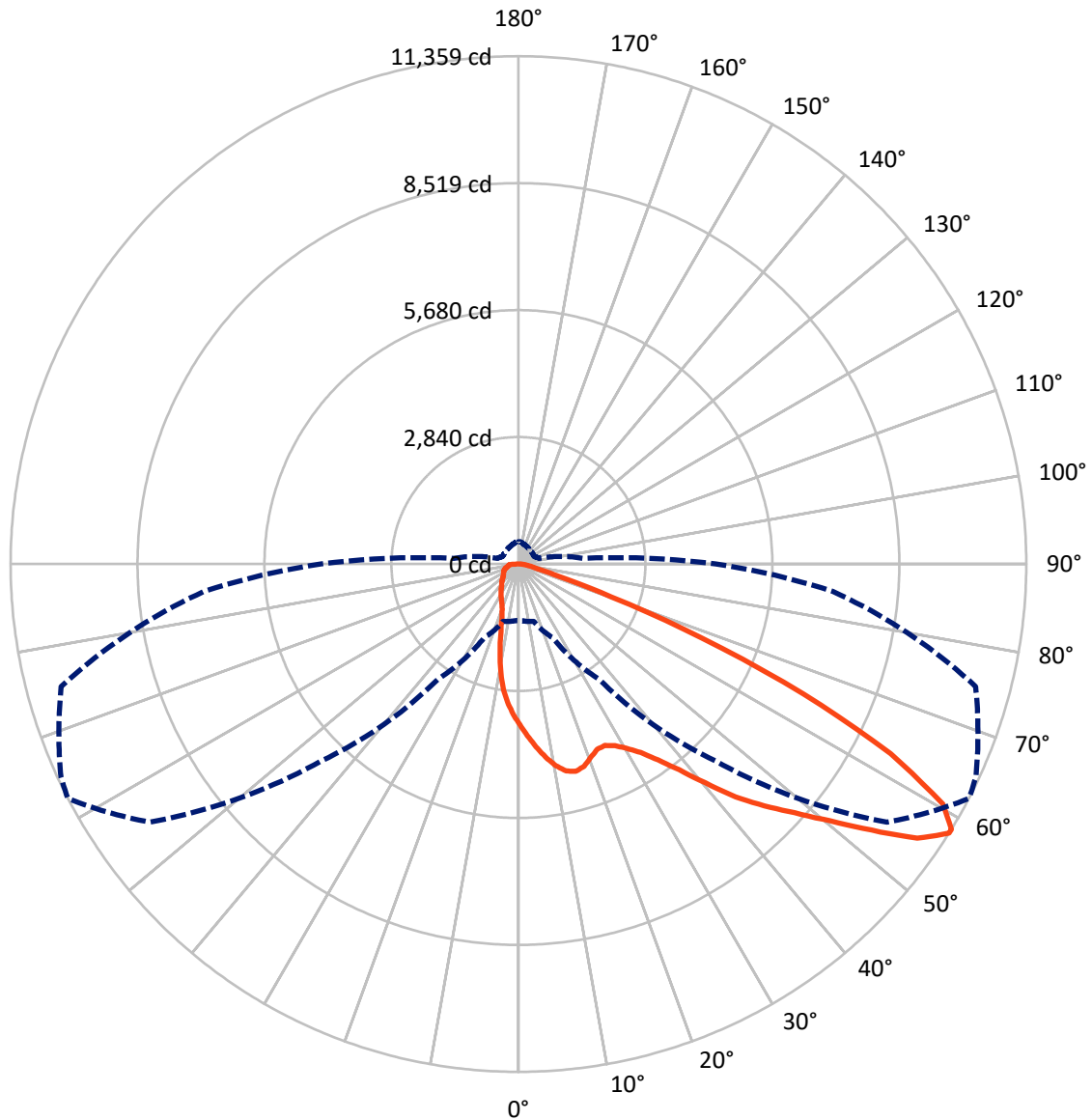
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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	2062.0	0.0	2062.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11458.8	0.0	11458.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	13520.8	0.0	13520.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	2.4
10°-20°	821.1	6.1
20°-30°	1327.3	9.8
30°-40°	2107.0	15.6
40°-50°	3083.0	22.8
50°-60°	3224.6	23.8
60°-70°	1905.1	14.1
70°-80°	536.7	4.0
80°-90°	194.8	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°	13520.8	100.0
0°-180°	13520.8	100.0



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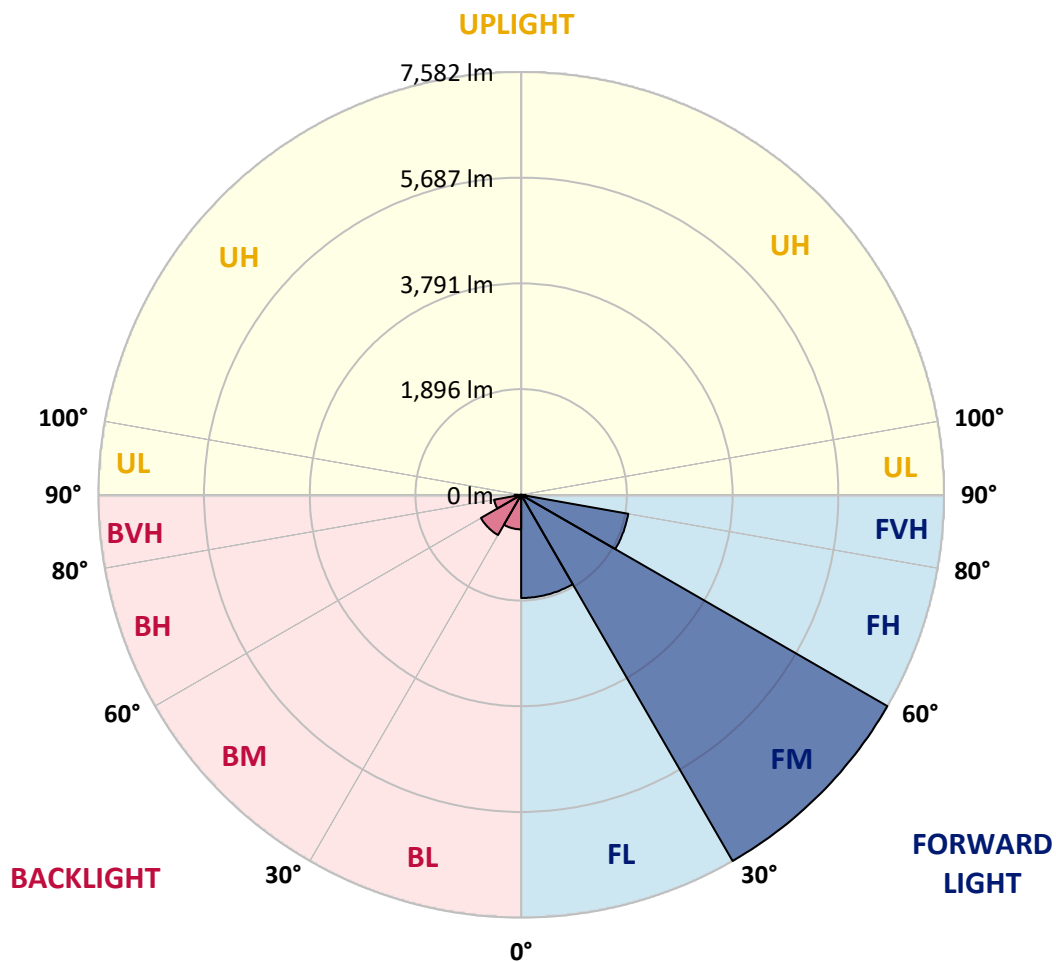
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.8	13.7			
FM (30°-60°)	7582.4	56.1			
FH (60°-80°)	1949.8	14.4			G2/5000
FVH (80°-90°)	76.9	0.6			G1/100
BL (0°-30°)	619.7	4.6	B2/1000		
BM (30°-60°)	832.3	6.2	B1/1000		
BH (60°-80°)	492.0	3.6	B1/500		G1/500
BVH (80°-90°)	118.0	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°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	4104.1	4071.0	4049.9	4031.4	4007.3	3955.7	3886.4	3842.4	3820.1	3744.4	3654.6
5°	4506.4	4477.1	4455.5	4430.7	4387.5	4306.6	4194.5	4105.3	4061.3	3909.9	3730.3
7.5°	4412.2	4424.4	4461.9	4527.4	4583.5	4572.7	4472.7	4359.3	4301.4	4090.6	3818.2
10°	3844.3	3865.3	3930.3	4083.7	4332.0	4586.7	4664.4	4586.0	4527.4	4269.7	3908.6
12.5°	3730.3	3729.7	3734.8	3775.6	3923.3	4281.7	4670.8	4749.6	4714.6	4440.2	4001.0
15°	3776.8	3778.0	3774.3	3791.4	3837.3	3979.2	4476.0	4812.7	4837.6	4612.2	4096.4
17.5°	3899.0	3895.8	3881.2	3881.2	3897.9	3953.2	4246.7	4754.1	4868.7	4764.4	4180.5
20°	4104.1	4089.5	4050.6	4015.0	3997.1	4027.1	4152.4	4619.2	4814.6	4897.3	4249.8
22.5°	4352.4	4340.9	4277.8	4201.4	4139.8	4139.1	4200.8	4501.4	4721.0	5022.7	4308.4
25°	4673.2	4654.8	4561.2	4438.9	4330.7	4289.3	4306.6	4495.6	4670.1	5159.0	4360.6
27.5°	5050.2	5016.4	4905.6	4729.3	4570.1	4486.7	4461.9	4599.4	4716.5	5327.8	4433.2
30°	5507.3	5468.4	5326.5	5096.6	4871.9	4735.0	4682.2	4783.4	4870.7	5533.4	4549.8
32.5°	6027.5	5971.4	5807.2	5553.7	5258.3	5049.5	4963.5	5026.6	5096.1	5781.1	4695.5
35°	6746.3	6679.4	6441.9	6092.4	5758.8	5471.7	5334.1	5379.9	5447.4	6150.3	4906.3
37.5°	7236.6	7206.6	7048.8	6720.2	6357.2	6026.8	5814.2	5840.9	5879.1	6612.0	5176.2
40°	7232.1	7244.2	7247.3	7250.6	7003.5	6687.1	6458.6	6430.5	6423.0	7118.8	5483.1
42.5°	6869.7	6919.5	7079.9	7405.3	7555.5	7410.4	7200.8	7120.0	7079.9	7716.0	5808.4
45°	6315.3	6342.1	6642.5	7278.0	7838.3	8126.6	7968.1	7713.3	7640.8	8264.8	6078.4
47.5°	6029.4	6058.7	6247.8	6940.4	7835.0	8705.3	8797.0	8311.9	8182.0	8742.3	6311.5
50°	5348.8	5409.9	5648.0	6353.4	7549.2	8971.5	9663.6	9025.1	8756.4	9207.1	6545.0
52.5°	4099.0	4193.2	4460.0	5388.2	6824.0	8839.7	10356.9	9889.6	9510.2	9688.4	6745.6
55°	2585.6	2655.6	2879.7	3805.5	5458.9	8154.0	10619.9	10824.9	10487.5	10144.2	6919.5
57.5°	1405.8	1437.0	1521.0	2101.0	3550.8	6638.0	10236.6	11357.2	11217.1	10531.4	7050.6
58°	1258.1	1279.1	1331.4	1821.0	3149.1	6223.6	10066.6	11359.0	11289.0	10588.1	7060.8
60°	933.4	922.5	876.0	1039.0	1752.7	4299.6	9039.0	10904.5	11110.1	10657.4	7011.1
62.5°	820.1	794.0	699.0	688.3	852.6	1980.8	6916.3	9340.8	9826.6	10261.4	6709.4
65°	770.4	742.4	620.1	580.6	615.0	837.9	4074.2	7005.4	7614.8	9060.7	5937.7
67.5°	733.4	697.2	569.8	515.7	518.2	554.0	1633.1	4412.2	5097.9	6879.4	4618.5
70°	697.8	658.3	527.1	464.8	450.1	438.0	649.4	2208.6	2830.7	4345.3	2944.6
72.5°	659.6	620.8	489.6	424.7	396.1	355.8	424.0	903.5	1262.0	2055.8	1335.8
75°	604.2	569.2	452.0	389.0	348.3	294.8	320.2	471.8	566.0	818.8	643.6
77.5°	536.1	507.4	410.0	359.7	308.7	239.4	246.4	327.2	363.0	468.6	382.6
80°	385.2	395.4	364.8	323.4	275.0	194.2	189.1	238.7	257.9	301.1	248.9
82.5°	270.6	276.3	301.8	264.2	227.3	152.9	139.5	168.0	179.5	198.0	134.4
85°	186.5	180.2	206.9	184.0	164.2	101.8	95.5	113.9	121.0	122.9	69.4
87.5°	112.1	112.1	119.7	98.7	88.5	52.9	51.6	64.9	69.4	66.2	38.2
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°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3601.0	3555.9	3459.7	3382.6	3285.3	3184.1	3127.4	3066.9	3025.5	2995.6	3043.3
5°	3628.5	3536.1	3337.6	3149.1	2940.8	2724.4	2560.1	2407.3	2301.0	2234.8	2297.1
7.5°	3671.7	3529.7	3213.4	2891.2	2517.5	2157.1	1834.9	1633.1	1515.3	1457.4	1493.7
10°	3721.4	3519.6	3067.6	2541.6	2006.9	1552.9	1312.2	1230.7	1203.9	1193.1	1198.2
12.5°	3762.8	3497.9	2888.6	2118.9	1507.0	1226.2	1156.8	1155.0	1160.7	1162.0	1163.8
15°	3792.1	3466.1	2623.1	1678.3	1205.2	1117.4	1113.6	1125.1	1135.9	1140.3	1142.9
17.5°	3811.8	3400.4	2323.3	1326.9	1079.8	1064.5	1073.5	1088.1	1099.5	1102.8	1105.2
20°	3809.9	3304.4	1966.1	1106.6	1011.7	1011.7	1026.9	1038.4	1039.0	1035.2	1037.2
22.5°	3790.2	3172.6	1619.8	989.5	951.2	962.0	977.4	966.5	921.9	892.6	894.5
25°	3757.1	3015.3	1323.0	914.9	895.2	914.3	909.8	828.3	764.7	736.0	736.0
27.5°	3727.8	2829.4	1095.1	849.9	839.1	862.7	783.7	709.8	683.2	669.8	665.4
30°	3706.7	2628.9	942.9	787.5	786.3	769.0	680.0	659.6	655.1	644.3	640.5
32.5°	3711.9	2425.8	845.5	732.8	737.3	658.3	630.3	634.8	631.0	619.5	614.4
35°	3753.9	2232.8	781.9	683.2	669.8	594.7	601.0	609.3	608.0	592.0	587.0
37.5°	3829.0	2050.1	739.8	641.8	584.4	562.8	573.1	585.7	582.6	571.8	567.9
40°	3907.9	1878.1	705.5	609.3	534.2	541.2	550.1	557.1	560.3	563.4	560.9
42.5°	3985.0	1698.7	663.4	576.3	513.2	520.8	524.7	531.6	548.8	560.9	560.3
45°	4030.8	1529.9	620.1	529.1	496.6	501.1	498.6	512.5	533.5	553.3	554.0
47.5°	4081.8	1398.8	585.7	485.7	480.7	483.9	476.3	490.2	509.3	533.5	536.1
50°	4143.5	1320.5	558.5	451.5	459.0	459.0	457.1	470.0	496.6	524.7	529.7
52.5°	4213.6	1305.2	535.5	426.5	437.4	436.8	438.6	457.8	487.1	514.4	518.9
55°	4299.0	1346.6	510.6	408.1	416.4	418.9	425.3	447.0	471.8	503.0	504.9
57.5°	4398.2	1430.6	490.9	393.5	397.2	405.6	415.7	435.5	462.2	496.6	498.6
58°	4414.7	1448.4	487.8	392.2	393.5	403.0	414.5	433.5	460.3	497.9	499.8
60°	4415.3	1507.7	480.7	386.4	378.8	394.8	407.4	426.5	457.1	502.4	506.9
62.5°	4258.8	1507.0	475.6	378.1	363.5	383.3	397.9	420.2	454.0	513.2	522.0
65°	3750.1	1369.4	451.5	365.5	351.5	373.1	389.6	415.7	462.8	560.3	566.0
67.5°	2933.2	1122.4	406.2	347.7	335.5	363.0	384.6	415.0	472.4	571.1	574.9
70°	1939.4	839.7	356.5	327.2	318.9	350.8	387.1	436.8	461.6	548.2	538.0
72.5°	1006.6	589.6	316.5	301.8	299.9	340.1	424.0	434.2	450.8	515.7	503.0
75°	528.5	409.4	281.5	273.8	277.0	337.4	500.4	422.8	436.8	493.5	517.7
77.5°	323.4	330.4	251.6	248.3	254.7	329.9	499.8	408.1	416.4	454.0	480.7
80°	216.5	268.0	228.6	229.2	233.7	301.8	448.8	385.2	391.5	429.2	456.4
82.5°	136.9	158.5	207.6	218.4	212.6	248.9	381.5	350.8	359.7	490.9	518.9
85°	69.4	99.3	180.2	210.1	191.6	174.5	309.4	307.6	311.9	354.0	370.0
87.5°	31.8	54.7	140.7	183.3	144.5	108.8	224.7	228.0	245.8	251.6	251.6
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)