

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: P193493

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193493
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: GLEON-AF-05-LED-E1-AFL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16409 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 162
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

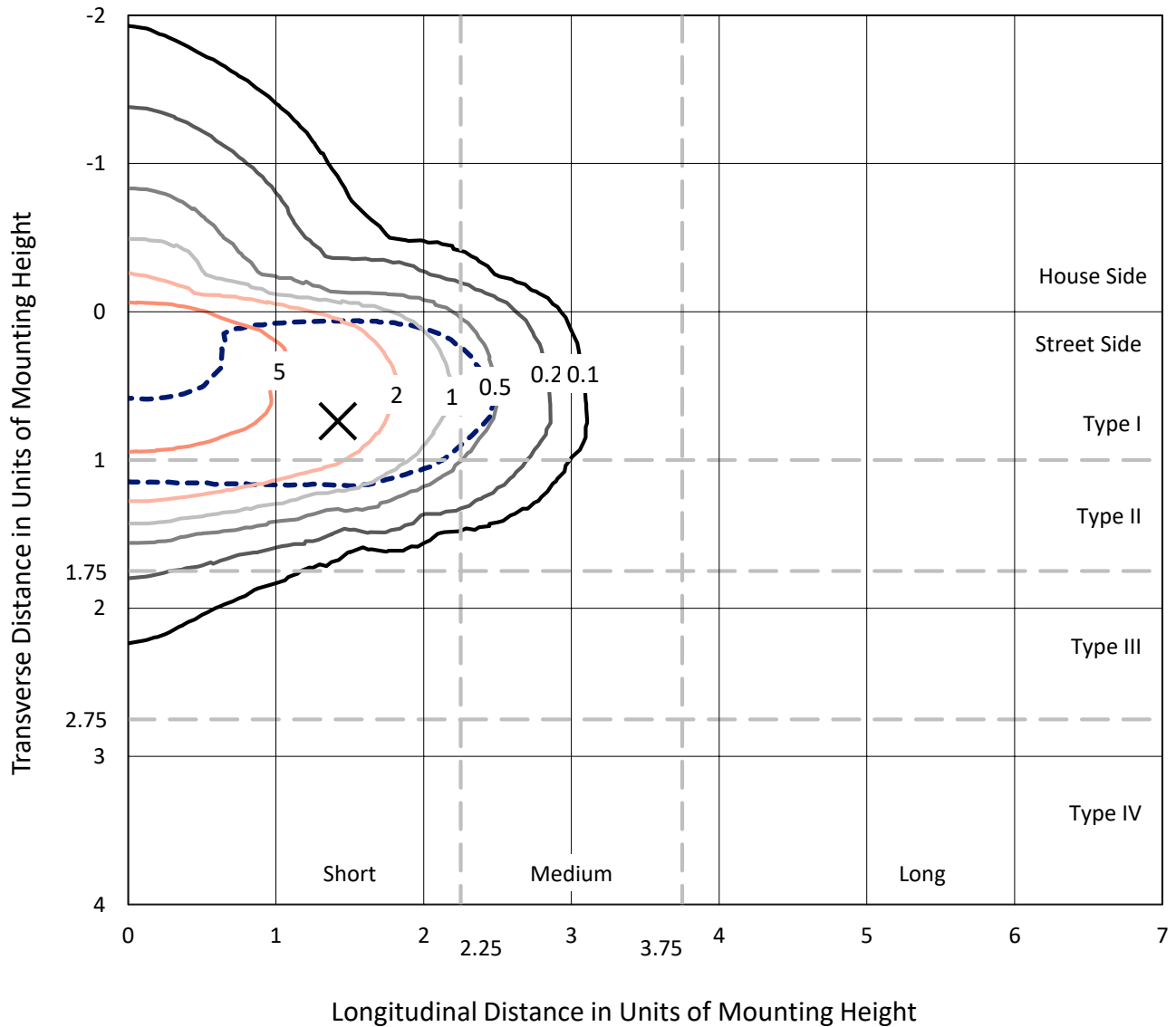


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Iso-Footcandle Lines of Horizontal Illumination

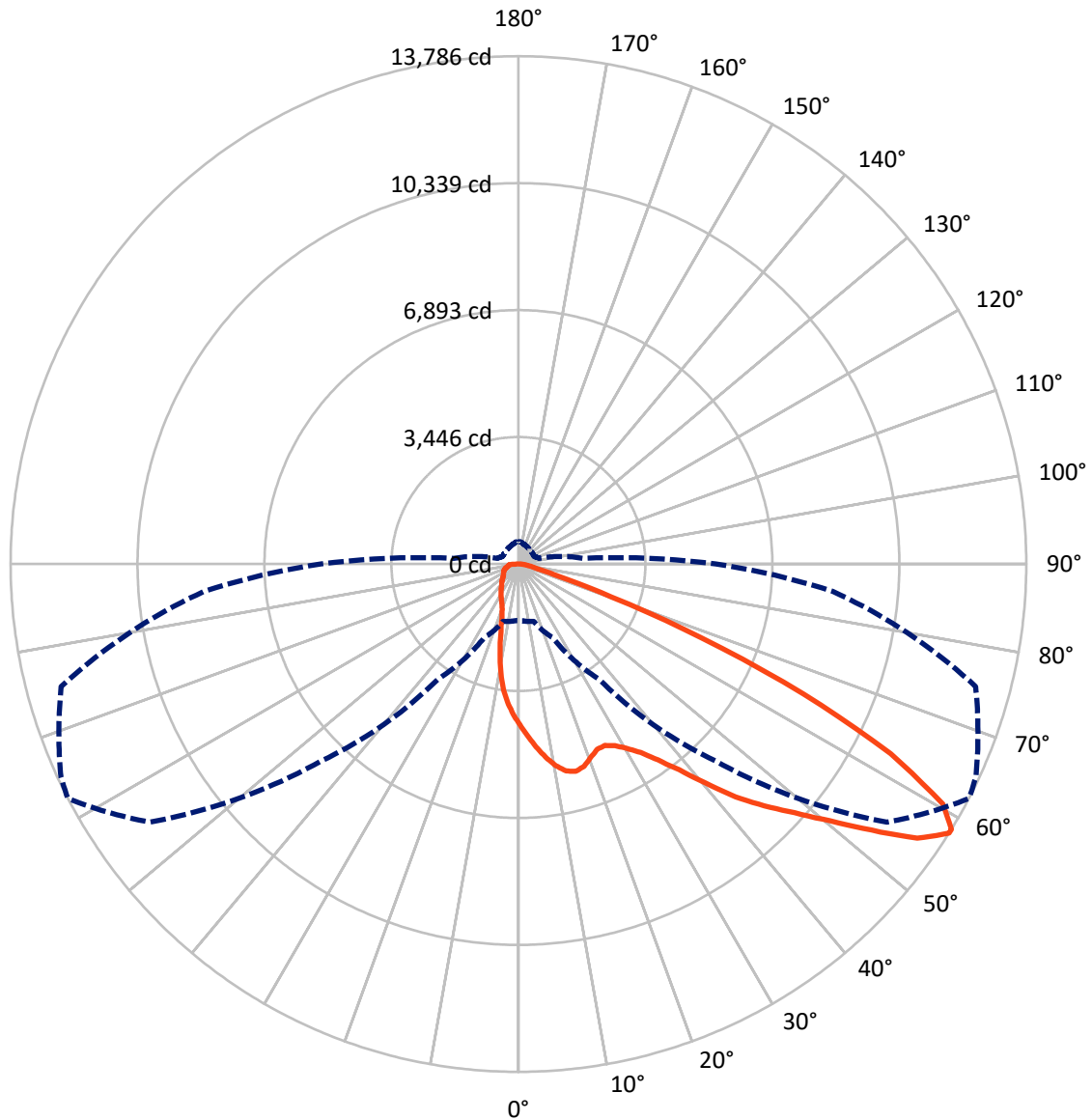
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2502.4	0.0	2502.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13906.6	0.0	13906.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	16409.0	0.0	16409.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	2.4
10°-20°	996.4	6.1
20°-30°	1610.8	9.8
30°-40°	2557.1	15.6
40°-50°	3741.6	22.8
50°-60°	3913.4	23.8
60°-70°	2312.0	14.1
70°-80°	651.3	4.0
80°-90°	236.5	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°	16409.0	100.0
0°-180°	16409.0	100.0



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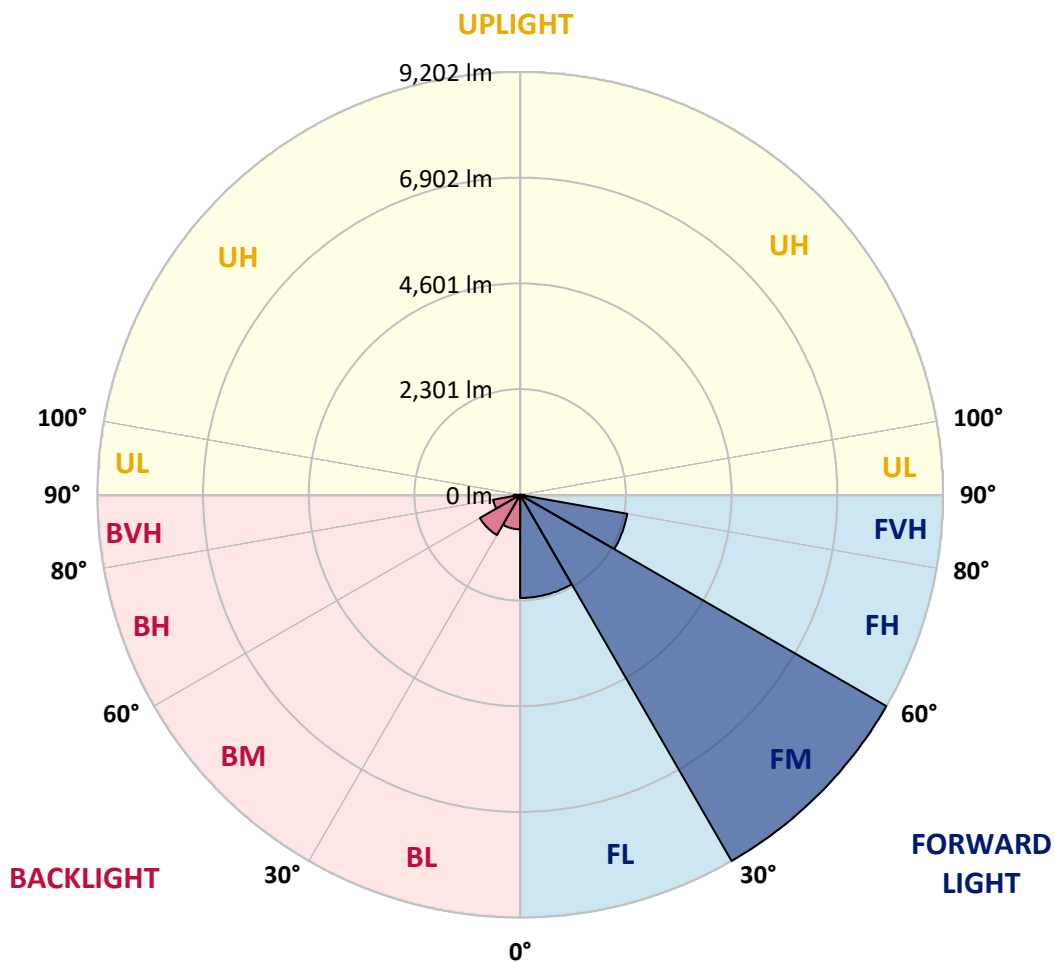
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.0	13.7			
FM (30°-60°)	9202.1	56.1			
FH (60°-80°)	2366.3	14.4			G2/5000
FVH (80°-90°)	93.3	0.6			G1/100
BL (0°-30°)	752.1	4.6	B2/1000		
BM (30°-60°)	1010.0	6.2	B2/2500		
BH (60°-80°)	597.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	143.2	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°	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7
2.5°	4980.7	4940.5	4915.0	4892.6	4863.3	4800.7	4716.5	4663.2	4636.1	4544.2	4435.2
5°	5469.1	5433.5	5407.3	5377.1	5324.6	5226.4	5090.4	4982.3	4929.0	4745.1	4527.2
7.5°	5354.7	5369.4	5415.0	5494.6	5562.6	5549.4	5428.1	5290.6	5220.3	4964.5	4633.8
10°	4665.5	4691.0	4769.8	4956.0	5257.3	5566.4	5660.7	5565.7	5494.6	5181.6	4743.5
12.5°	4527.2	4526.4	4532.6	4582.0	4761.3	5196.3	5668.4	5764.2	5721.7	5388.7	4855.6
15°	4583.6	4585.1	4580.5	4601.3	4657.0	4829.3	5432.0	5840.7	5870.9	5597.3	4971.5
17.5°	4731.9	4728.1	4710.3	4710.3	4730.4	4797.6	5153.8	5769.6	5908.7	5782.0	5073.5
20°	4980.7	4963.0	4915.8	4872.6	4850.9	4887.2	5039.5	5605.8	5843.0	5943.5	5157.7
22.5°	5282.1	5268.2	5191.7	5098.9	5024.0	5023.2	5098.2	5462.9	5729.5	6095.7	5228.8
25°	5671.5	5649.1	5535.5	5387.2	5255.8	5205.6	5226.4	5455.9	5667.6	6261.1	5292.1
27.5°	6128.9	6088.0	5953.5	5739.5	5546.3	5445.1	5415.0	5581.9	5724.1	6465.8	5380.2
30°	6683.7	6636.6	6464.3	6185.3	5912.6	5746.5	5682.3	5805.2	5911.0	6715.4	5521.6
32.5°	7315.0	7247.0	7047.7	6740.1	6381.6	6128.2	6023.9	6100.3	6184.6	7016.0	5698.6
35°	8187.4	8106.2	7818.0	7393.8	6988.9	6640.5	6473.6	6529.2	6611.1	7464.1	5954.3
37.5°	8782.3	8746.0	8554.4	8155.7	7715.3	7314.2	7056.2	7088.6	7135.0	8024.3	6281.9
40°	8776.9	8791.6	8795.5	8799.3	8499.5	8115.5	7838.1	7804.1	7794.8	8639.4	6654.4
42.5°	8337.3	8397.5	8592.3	8987.1	9169.5	8993.3	8739.1	8640.9	8592.3	9364.2	7049.2
45°	7664.3	7696.7	8061.4	8832.6	9512.5	9862.6	9670.2	9361.1	9273.0	10030.2	7376.8
47.5°	7317.3	7352.9	7582.4	8423.0	9508.7	10564.9	10676.2	10087.4	9929.8	10609.7	7659.6
50°	6491.3	6565.5	6854.5	7710.6	9161.7	10887.9	11727.8	10952.8	10626.7	11173.8	7943.2
52.5°	4974.5	5088.9	5412.7	6539.2	8281.6	10728.0	12569.3	12002.1	11541.6	11757.9	8186.6
55°	3137.9	3222.9	3494.9	4618.3	6625.0	9895.8	12888.4	13137.2	12727.7	12311.2	8397.5
57.5°	1706.1	1744.0	1845.9	2549.9	4309.3	8056.0	12423.2	13783.2	13613.2	12781.0	8556.7
58°	1526.8	1552.3	1615.7	2209.9	3821.7	7553.0	12216.9	13785.5	13700.5	12849.8	8569.1
60°	1132.8	1119.6	1063.2	1261.0	2127.2	5217.9	10969.8	13233.8	13483.4	12934.0	8508.8
62.5°	995.2	963.5	848.4	835.3	1034.6	2403.8	8393.7	11336.1	11925.6	12453.4	8142.6
65°	934.9	901.0	752.6	704.7	746.4	1016.9	4944.4	8501.9	9241.3	10996.1	7206.1
67.5°	890.1	846.1	691.6	625.9	629.0	672.2	1981.9	5354.7	6186.9	8348.9	5605.1
70°	846.9	799.0	639.8	564.1	546.3	531.6	788.1	2680.4	3435.4	5273.6	3573.7
72.5°	800.5	753.4	594.2	515.4	480.6	431.9	514.6	1096.4	1531.5	2495.0	1621.1
75°	733.3	690.8	548.6	472.1	422.7	357.8	388.7	572.6	686.9	993.7	781.2
77.5°	650.6	615.8	497.6	436.6	374.8	290.5	299.0	397.2	440.4	568.7	464.4
80°	467.5	479.8	442.7	392.5	333.8	235.7	229.5	289.8	312.9	365.5	302.1
82.5°	328.4	335.3	366.3	320.7	275.8	185.4	169.2	204.0	217.9	240.3	163.0
85°	226.4	218.7	251.1	223.3	199.4	123.6	115.9	138.3	146.8	149.1	84.2
87.5°	136.0	136.0	145.3	119.8	107.4	64.1	62.6	78.8	84.2	80.4	46.4
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°	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7	4358.7
2.5°	4370.3	4315.4	4198.8	4105.3	3987.1	3864.2	3795.4	3722.0	3671.8	3635.5	3693.4
5°	4403.5	4291.5	4050.4	3821.7	3569.0	3306.3	3107.0	2921.5	2792.5	2712.1	2787.8
7.5°	4456.1	4283.8	3899.7	3508.8	3055.2	2617.9	2226.9	1981.9	1839.0	1768.7	1812.7
10°	4516.3	4271.4	3722.8	3084.6	2435.5	1884.6	1592.5	1493.6	1461.1	1448.0	1454.2
12.5°	4566.6	4245.1	3505.7	2571.5	1828.9	1488.2	1404.0	1401.7	1408.6	1410.2	1412.5
15°	4602.1	4206.5	3183.5	2036.8	1462.7	1356.1	1351.4	1365.3	1378.5	1383.9	1387.0
17.5°	4626.1	4126.9	2819.5	1610.3	1310.5	1291.9	1302.7	1320.5	1334.4	1338.3	1341.4
20°	4623.7	4010.2	2386.1	1342.9	1227.8	1227.8	1246.3	1260.2	1261.0	1256.4	1258.7
22.5°	4599.8	3850.3	1965.7	1200.8	1154.4	1167.5	1186.1	1172.9	1118.8	1083.3	1085.6
25°	4559.6	3659.4	1605.6	1110.3	1086.4	1109.6	1104.2	1005.3	928.0	893.2	893.2
27.5°	4524.1	3433.8	1329.0	1031.5	1018.4	1047.0	951.2	861.5	829.1	812.9	807.5
30°	4498.6	3190.4	1144.3	955.8	954.3	933.4	825.2	800.5	795.1	782.0	777.3
32.5°	4504.8	2943.9	1026.1	889.4	894.8	799.0	765.0	770.4	765.7	751.8	745.6
35°	4555.8	2709.8	948.9	829.1	812.9	721.7	729.4	739.5	737.9	718.6	712.4
37.5°	4646.9	2488.0	897.9	778.9	709.3	683.1	695.4	710.9	707.0	693.9	689.2
40°	4742.7	2279.4	856.1	739.5	648.3	656.8	667.6	676.1	680.0	683.8	680.7
42.5°	4836.2	2061.5	805.1	699.3	622.8	632.1	636.7	645.2	666.1	680.7	680.0
45°	4891.9	1856.8	752.6	642.1	602.7	608.1	605.0	622.0	647.5	671.5	672.2
47.5°	4953.7	1697.6	710.9	589.6	583.4	587.2	578.0	595.0	618.1	647.5	650.6
50°	5028.6	1602.5	677.6	547.8	557.1	557.1	554.8	570.2	602.7	636.7	642.9
52.5°	5113.6	1584.0	649.8	517.7	530.8	530.1	532.4	555.6	591.1	624.3	629.7
55°	5217.2	1634.2	619.7	495.3	505.3	508.4	516.2	542.4	572.6	610.4	612.7
57.5°	5337.7	1736.2	595.7	477.5	482.2	492.2	504.6	528.5	561.0	602.7	605.0
58°	5357.8	1757.9	591.9	476.0	477.5	489.1	503.0	526.2	558.7	604.2	606.6
60°	5358.6	1829.7	583.4	469.0	459.7	479.1	494.5	517.7	554.8	609.6	615.1
62.5°	5168.5	1828.9	577.2	459.0	441.2	465.2	482.9	510.0	550.9	622.8	633.6
65°	4551.1	1662.0	547.8	443.5	426.5	452.8	472.9	504.6	561.7	680.0	686.9
67.5°	3559.8	1362.2	493.0	421.9	407.2	440.4	466.7	503.8	573.3	693.1	697.7
70°	2353.6	1019.2	432.7	397.2	387.1	425.7	469.8	530.1	560.2	665.3	652.9
72.5°	1221.6	715.5	384.0	366.3	363.9	412.6	514.6	527.0	547.1	625.9	610.4
75°	641.3	496.8	341.5	332.3	336.1	409.5	607.3	513.1	530.1	598.8	628.2
77.5°	392.5	401.0	305.2	301.3	309.1	400.3	606.6	495.3	505.3	550.9	583.4
80°	262.7	325.3	277.4	278.2	283.6	366.3	544.7	467.5	475.2	520.8	554.0
82.5°	166.1	192.4	251.9	265.0	258.1	302.1	462.8	425.7	436.6	595.7	629.7
85°	84.2	120.5	218.7	255.0	232.6	211.7	375.5	373.2	378.6	429.6	448.9
87.5°	38.6	66.5	170.8	222.5	175.4	132.1	272.8	276.6	298.3	305.2	305.2
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)