

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: P191262

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25603.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

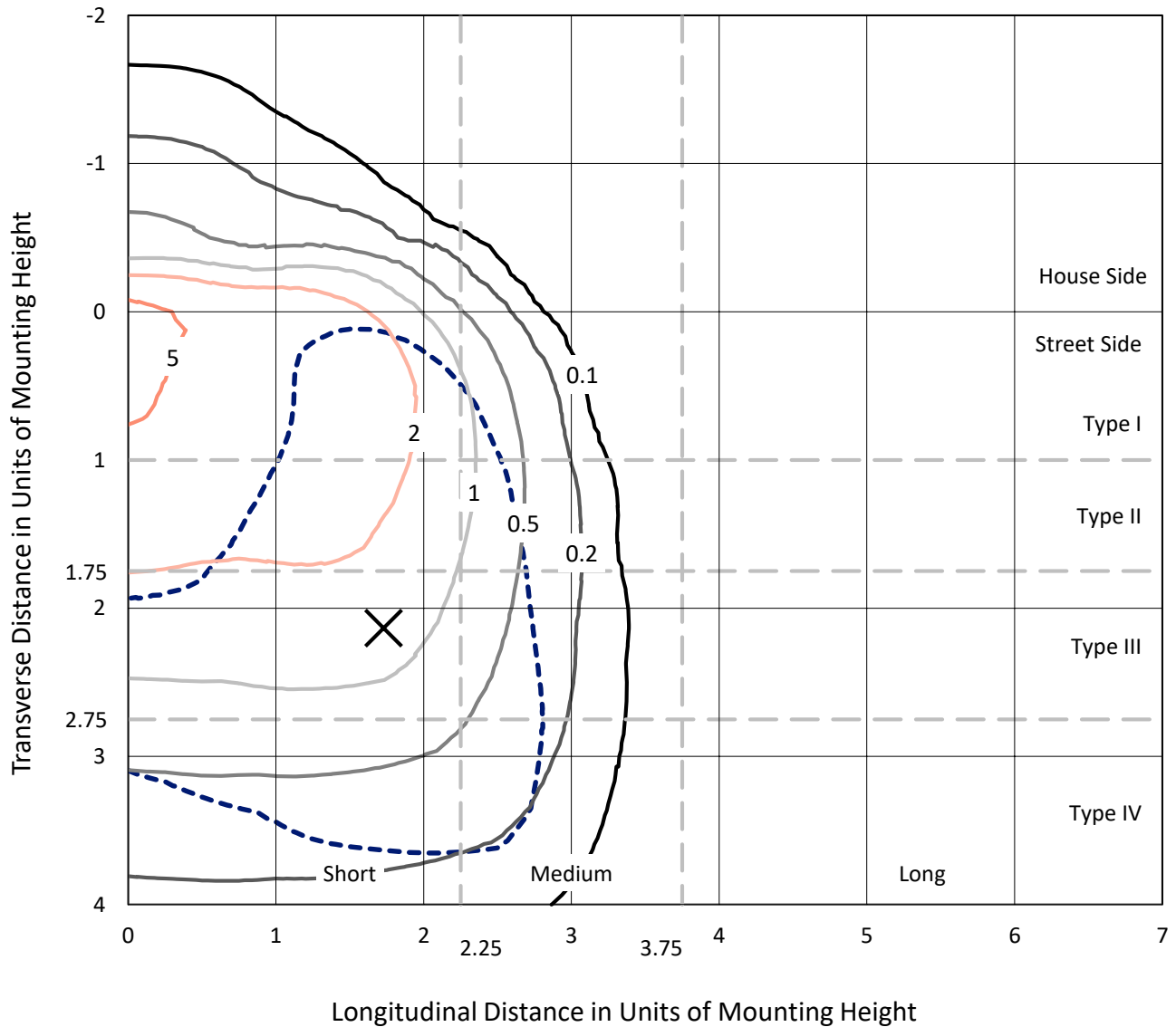
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

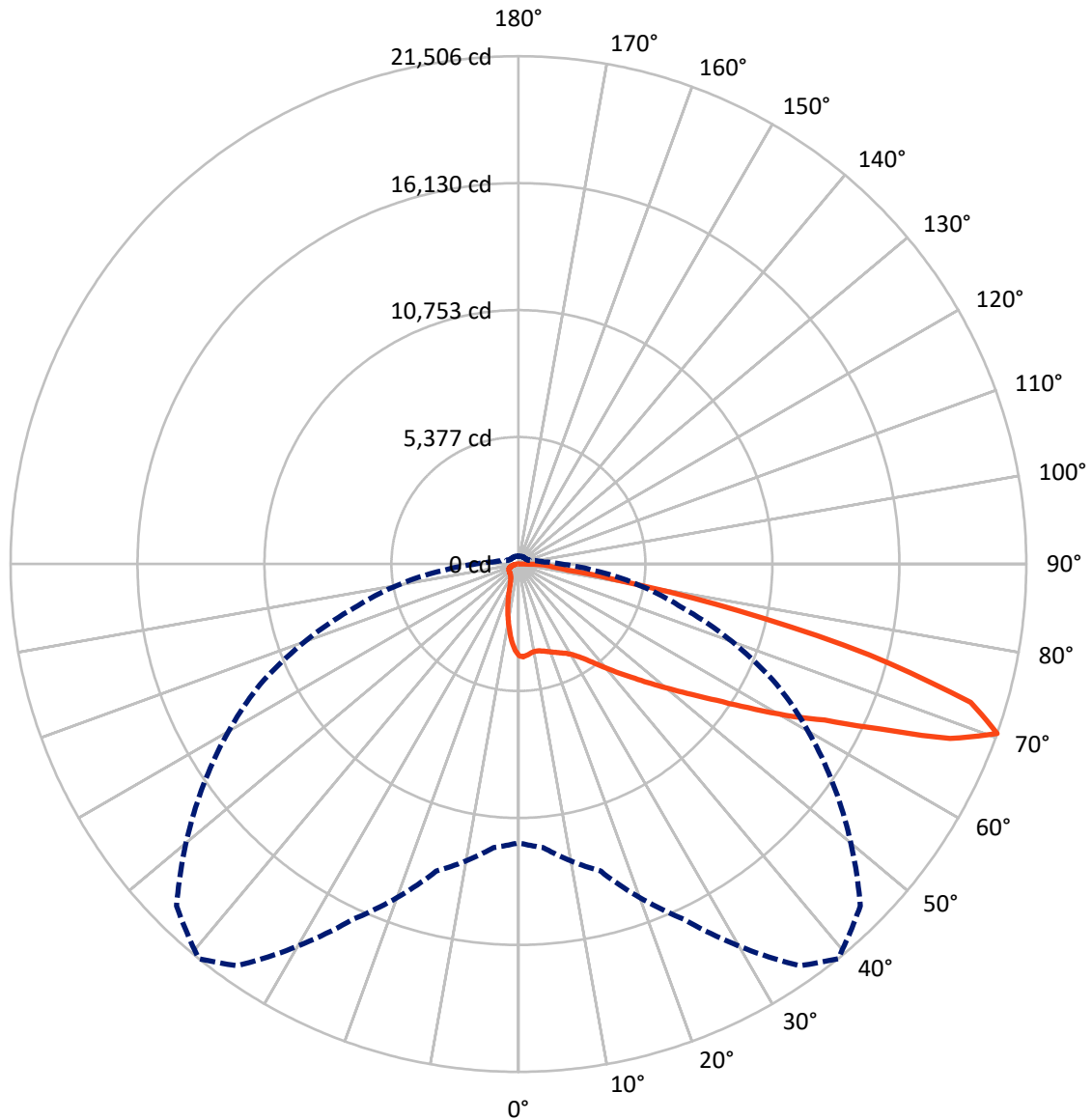
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.0	0.0	2912.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	22691.4	0.0	22691.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	25603.4	0.0	25603.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.3
10°-20°	833.8	3.3
20°-30°	1298.3	5.1
30°-40°	2022.5	7.9
40°-50°	3395.4	13.3
50°-60°	5393.9	21.1
60°-70°	7194.8	28.1
70°-80°	4344.8	17.0
80°-90°	786.3	3.1
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°	25603.4	100.0
0°-180°	25603.4	100.0



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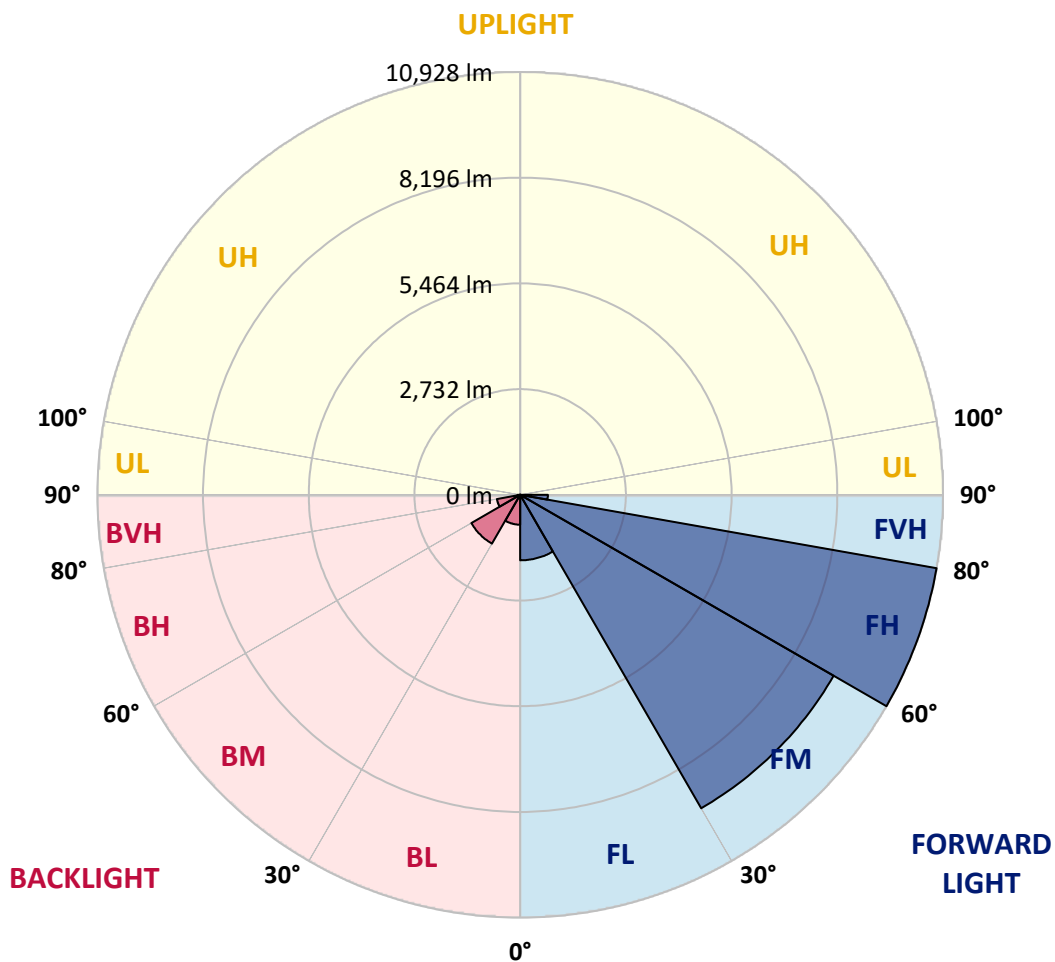
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1693.2	6.6			
FM	(30°-60°)	9354.5	36.5			
FH	(60°-80°)	10928.3	42.7			G4/12000
FVH	(80°-90°)	715.5	2.8			G4/750
BL	(0°-30°)	772.5	3.0	B2/1000		
BM	(30°-60°)	1457.3	5.7	B2/2500		
BH	(60°-80°)	611.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	70.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0
2.5°	3962.5	3961.2	3950.7	3943.0	3936.4	3933.9	3939.1	3919.5	3902.7	3881.8	3859.7
5°	3932.5	3931.3	3914.3	3898.7	3883.1	3877.9	3876.6	3841.5	3820.6	3789.3	3747.7
7.5°	3900.0	3893.6	3871.4	3845.4	3818.0	3805.0	3792.0	3746.5	3723.0	3691.7	3643.5
10°	3866.1	3858.4	3837.5	3811.5	3785.4	3765.9	3743.8	3699.5	3674.8	3651.4	3595.4
12.5°	3831.1	3824.5	3819.3	3807.6	3789.3	3772.4	3755.6	3717.8	3691.7	3664.4	3599.4
15°	3825.8	3823.2	3834.9	3842.7	3832.3	3821.9	3803.6	3771.1	3743.8	3716.5	3631.9
17.5°	3867.5	3866.1	3896.1	3917.0	3911.8	3893.6	3868.8	3832.3	3810.2	3786.8	3681.3
20°	3958.6	3965.1	4001.6	4028.9	4002.8	3976.8	3936.4	3885.7	3874.0	3863.6	3732.1
22.5°	4130.5	4136.9	4163.0	4173.3	4105.7	4068.0	4012.0	3946.9	3939.1	3946.9	3793.3
25°	4398.6	4392.0	4388.2	4349.1	4225.4	4166.9	4095.3	4027.6	4031.4	4066.6	3879.2
27.5°	4754.0	4718.8	4664.1	4547.0	4350.4	4285.3	4198.1	4135.6	4160.3	4228.1	4008.0
30°	5122.3	5083.2	4957.0	4765.7	4514.5	4442.9	4345.2	4274.9	4340.0	4446.8	4179.9
32.5°	5463.4	5458.2	5273.3	5027.3	4741.0	4678.5	4580.9	4501.4	4606.9	4769.6	4437.7
35°	5835.7	5847.4	5626.1	5330.6	5046.8	4981.8	4911.5	4851.5	4992.2	5216.0	4811.2
37.5°	6234.1	6257.5	5995.8	5662.5	5395.8	5368.3	5326.7	5300.7	5518.1	5827.9	5333.3
40°	6766.4	6743.0	6379.8	6037.5	5824.0	5822.6	5809.6	5840.9	6202.8	6627.2	6003.6
42.5°	7336.6	7267.7	6787.3	6439.7	6293.9	6338.2	6364.2	6491.7	7026.8	7598.3	6821.1
45°	7951.0	7796.1	7210.4	6865.4	6815.9	6909.6	6998.1	7275.4	7996.6	8703.5	7716.7
47.5°	8441.8	8292.0	7647.7	7311.8	7420.0	7561.9	7732.4	8171.0	9082.3	9845.1	8600.6
50°	8828.4	8730.8	8089.0	7832.5	8085.1	8303.8	8582.4	9185.1	10212.1	10956.7	9419.4
52.5°	9203.3	9130.4	8534.2	8366.3	8866.1	9168.2	9547.0	10273.3	11370.7	12050.3	10108.0
55°	9541.8	9489.7	9013.2	9031.4	9785.1	10178.4	10654.7	11512.6	12633.4	13025.2	10691.2
57.5°	9923.1	9856.7	9560.0	9865.8	10965.8	11476.2	12095.8	12905.4	13818.0	13892.2	11135.1
60°	10307.2	10249.9	10166.6	10829.2	12465.5	13001.8	13588.9	14255.3	15019.5	14565.2	11109.0
62.5°	10640.4	10647.0	10794.1	11840.7	13933.8	14554.7	15270.7	15929.4	16106.5	14682.3	10287.6
65°	11205.4	11308.2	11747.0	13272.6	16001.0	16831.5	17710.1	17604.8	16407.1	13587.5	8526.4
67.5°	11877.1	12058.0	12947.1	15180.9	18613.6	19716.1	20055.9	17983.6	15203.0	11045.3	6077.9
70°	11809.4	12058.0	13465.2	16603.7	20766.7	21506.1	20475.1	16275.7	12072.4	7215.6	3228.3
72.5°	10486.8	10842.2	12409.5	15951.5	20088.5	20023.3	17775.3	12133.5	7172.6	2897.7	1261.4
75°	7992.7	8352.0	9700.5	12602.1	15877.3	15330.6	12612.6	6702.7	2722.0	1150.7	795.3
77.5°	4597.8	4876.3	5917.7	7728.4	10072.9	9511.8	7020.3	2981.0	1325.1	801.9	620.9
80°	2567.0	2722.0	3354.6	3920.9	4936.2	4524.8	3141.1	1852.4	989.3	581.9	479.0
82.5°	2029.4	2167.4	2712.9	2473.3	2254.6	2080.2	1804.2	1649.3	790.1	367.1	286.4
85°	1773.0	1904.4	2296.3	1947.4	1540.0	1412.4	1465.8	1623.3	614.4	221.3	244.7
87.5°	1642.8	1818.5	2046.3	1500.9	1198.9	1062.2	1352.5	1779.5	197.8	138.0	98.9
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°	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0	3887.0
2.5°	3840.2	3819.3	3785.4	3755.6	3708.7	3684.0	3656.6	3637.1	3621.5	3608.5	3629.2
5°	3721.7	3682.6	3611.0	3534.2	3443.2	3371.5	3311.6	3255.6	3216.6	3190.6	3208.8
7.5°	3609.7	3546.0	3433.9	3294.7	3138.5	3005.7	2896.4	2800.0	2733.6	2690.7	2707.6
10°	3546.0	3466.6	3293.4	3074.7	2844.3	2637.4	2465.5	2317.1	2214.3	2155.7	2164.8
12.5°	3530.3	3427.5	3187.9	2887.3	2572.2	2284.6	2042.4	1836.7	1692.3	1616.8	1619.3
15°	3542.1	3410.5	3089.0	2707.6	2309.3	1946.1	1644.1	1394.2	1226.2	1140.3	1139.1
17.5°	3561.6	3397.5	2984.9	2513.7	2042.4	1620.7	1283.5	1038.8	890.4	821.4	816.2
20°	3582.4	3376.8	2867.7	2304.1	1765.2	1318.7	1004.9	813.6	719.9	682.1	679.5
22.5°	3612.3	3358.4	2746.6	2082.8	1493.1	1073.9	826.6	697.8	648.2	628.7	626.1
25°	3660.5	3349.3	2617.8	1852.4	1248.4	898.2	719.9	640.5	611.8	598.8	597.5
27.5°	3741.2	3362.4	2496.7	1628.4	1049.2	779.7	660.0	611.8	591.0	579.3	578.0
30°	3845.4	3402.7	2369.2	1416.3	894.3	699.1	623.5	592.3	575.4	563.6	563.6
32.5°	4018.5	3470.5	2235.0	1232.8	783.7	643.0	596.2	575.4	561.1	552.0	550.7
35°	4273.6	3598.0	2110.1	1080.4	704.2	602.7	572.8	557.1	546.8	541.6	541.6
37.5°	4644.6	3799.8	1999.5	971.1	656.1	575.4	550.7	538.9	532.4	532.4	532.4
40°	5143.2	4078.4	1909.6	898.2	628.7	555.9	533.7	524.6	520.7	522.0	522.0
42.5°	5758.9	4440.2	1849.8	847.4	615.7	544.1	522.0	514.2	510.2	509.0	510.2
45°	6460.5	4851.5	1843.3	809.7	602.7	536.3	514.2	506.4	498.6	493.4	493.4
47.5°	7142.7	5269.4	1896.7	796.7	588.4	527.2	507.7	499.9	488.2	476.4	476.4
50°	7745.4	5624.8	1968.3	801.9	583.2	514.2	497.3	493.4	475.2	462.1	460.8
52.5°	8224.4	5898.2	2026.8	817.5	588.4	505.0	484.3	485.6	466.1	451.7	450.4
55°	8608.4	6077.9	2011.2	833.1	600.1	499.9	472.5	475.2	459.5	445.2	445.2
57.5°	8776.3	6011.5	1838.0	820.1	609.2	501.1	463.4	473.8	460.8	447.8	447.8
60°	8415.7	5421.7	1514.0	762.8	597.5	497.3	459.5	479.0	477.7	464.7	463.4
62.5°	7324.9	4366.1	1174.1	678.2	557.1	477.7	449.1	477.7	492.0	488.2	486.8
65°	5645.7	3109.9	896.9	587.1	502.5	445.2	421.8	447.8	467.3	472.5	471.3
67.5°	3664.4	1905.8	691.2	501.1	441.3	407.4	386.6	398.3	402.2	402.2	399.7
70°	1801.6	1025.8	550.7	421.8	378.8	367.1	355.4	348.8	342.4	337.2	337.2
72.5°	889.0	670.4	453.0	356.7	326.7	321.5	319.0	311.1	305.9	299.4	296.8
75°	657.3	545.4	385.3	300.7	281.2	276.0	281.2	274.7	273.3	268.1	265.6
77.5°	540.2	464.7	331.9	257.8	240.8	231.7	239.5	240.8	242.1	234.4	231.7
80°	438.6	393.1	277.2	213.5	197.8	191.4	196.6	206.9	209.6	197.8	192.6
82.5°	316.3	321.5	223.9	166.6	153.6	148.4	158.8	171.9	174.4	157.5	153.6
85°	265.6	268.1	171.9	118.5	105.5	97.6	114.6	127.6	136.7	119.8	115.9
87.5°	110.7	157.5	98.9	66.4	58.6	50.7	61.2	67.7	82.0	75.5	74.2
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)