

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: P191253

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191253
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-05-LED-E1-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 28917.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 279
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

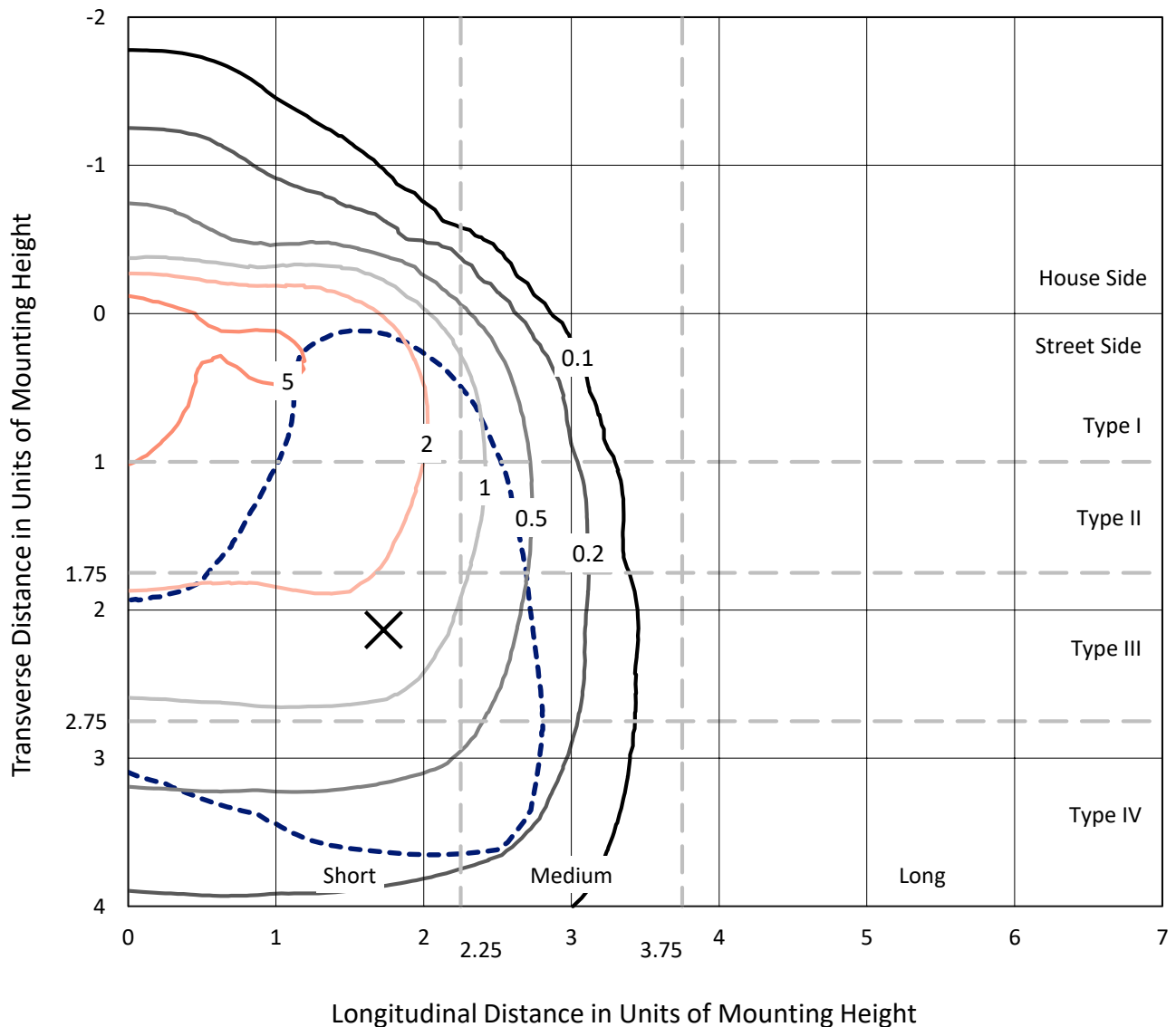


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Iso-Footcandle Lines of Horizontal Illumination

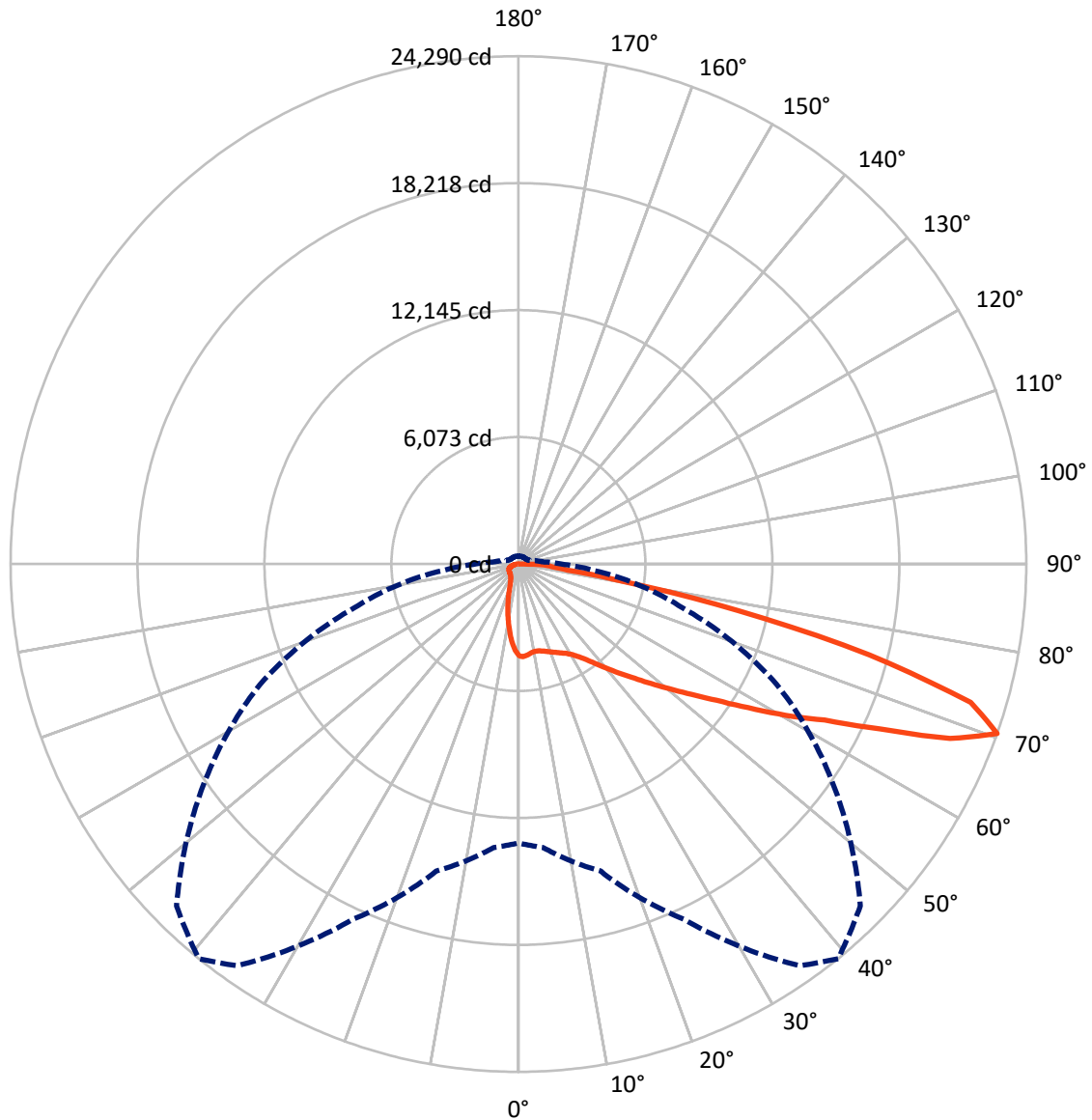
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3288.9	0.0	3288.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	25628.9	0.0	25628.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	28917.8	0.0	28917.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	1.3
10°-20°	941.8	3.3
20°-30°	1466.3	5.1
30°-40°	2284.3	7.9
40°-50°	3834.9	13.3
50°-60°	6092.1	21.1
60°-70°	8126.2	28.1
70°-80°	4907.2	17.0
80°-90°	888.1	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°	28917.8	100.0
0°-180°	28917.8	100.0



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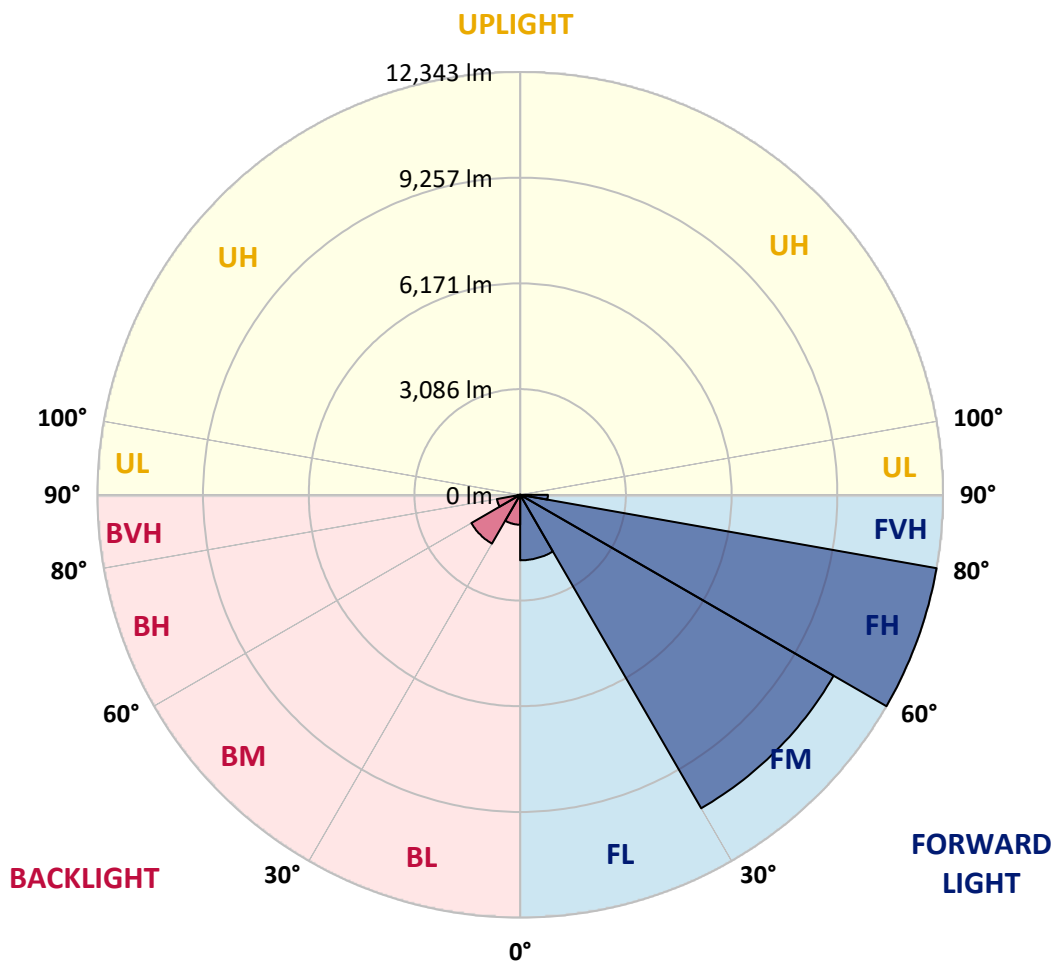
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.4	6.6			
FM	(30°-60°)	10565.4	36.5			
FH	(60°-80°)	12343.0	42.7			G5
FVH	(80°-90°)	808.1	2.8			G5
BL	(0°-30°)	872.5	3.0	B2/1000		
BM	(30°-60°)	1645.9	5.7	B2/2500		
BH	(60°-80°)	690.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	80.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2
2.5°	4475.4	4474.0	4462.2	4453.4	4446.1	4443.1	4449.0	4426.9	4407.8	4384.3	4359.3
5°	4441.7	4440.1	4421.1	4403.4	4385.8	4379.9	4378.4	4338.7	4315.2	4279.9	4232.9
7.5°	4404.8	4397.6	4372.5	4343.1	4312.2	4297.5	4282.9	4231.3	4204.9	4169.6	4115.2
10°	4366.7	4357.9	4334.3	4304.9	4275.5	4253.4	4228.5	4178.4	4150.5	4124.0	4060.8
12.5°	4327.0	4319.6	4313.7	4300.5	4279.9	4260.8	4241.7	4199.0	4169.6	4138.8	4065.2
15°	4321.0	4318.1	4331.4	4340.2	4328.4	4316.6	4296.1	4259.4	4228.5	4197.6	4102.0
17.5°	4368.1	4366.7	4400.4	4424.0	4418.1	4397.6	4369.6	4328.4	4303.5	4277.0	4157.9
20°	4471.0	4478.4	4519.6	4550.4	4521.0	4491.6	4446.1	4388.7	4375.5	4363.7	4215.2
22.5°	4665.1	4672.4	4701.9	4713.7	4637.1	4594.6	4531.3	4457.8	4449.0	4457.8	4284.3
25°	4968.0	4960.6	4956.2	4912.1	4772.5	4706.3	4625.4	4549.0	4553.4	4593.0	4381.3
27.5°	5369.4	5329.7	5267.9	5135.6	4913.5	4840.1	4741.6	4671.0	4698.9	4775.3	4526.9
30°	5785.4	5741.3	5598.7	5382.6	5098.8	5018.0	4907.7	4828.3	4901.8	5022.4	4721.0
32.5°	6170.6	6164.8	5956.0	5678.1	5354.6	5284.1	5173.8	5084.2	5203.2	5387.0	5012.0
35°	6591.2	6604.4	6354.5	6020.7	5700.2	5626.6	5547.3	5479.6	5638.4	5891.3	5434.0
37.5°	7041.1	7067.5	6771.9	6395.6	6094.2	6063.3	6016.3	5986.8	6232.4	6582.3	6023.6
40°	7642.4	7615.9	7205.7	6819.0	6577.9	6576.4	6561.7	6597.0	7005.8	7485.0	6780.8
42.5°	8286.3	8208.4	7665.9	7273.3	7108.7	7158.6	7188.1	7332.1	7936.5	8581.8	7704.1
45°	8980.3	8805.4	8143.7	7754.1	7698.2	7804.1	7904.0	8217.3	9031.7	9830.1	8715.6
47.5°	9534.6	9365.5	8637.7	8258.4	8380.4	8540.7	8733.3	9228.8	10257.9	11119.5	9713.9
50°	9971.2	9860.9	9136.2	8846.5	9131.8	9378.7	9693.4	10374.1	11534.1	12375.1	10638.7
52.5°	10394.7	10312.4	9639.0	9449.3	10013.9	10355.0	10782.8	11603.2	12842.6	13610.2	11416.5
55°	10777.0	10718.2	10180.0	10200.6	11051.9	11495.9	12034.0	13002.9	14268.8	14711.4	12075.2
57.5°	11207.8	11132.8	10797.6	11143.0	12385.4	12961.7	13661.6	14576.0	15606.8	15690.5	12576.6
60°	11641.5	11576.7	11482.6	12231.0	14079.1	14684.9	15347.9	16100.7	16963.8	16450.7	12547.1
62.5°	12017.8	12025.2	12191.3	13373.4	15737.6	16438.9	17247.6	17991.5	18191.4	16583.0	11619.4
65°	12655.9	12772.1	13267.6	14990.7	18072.4	19010.3	20002.8	19883.7	18531.1	15346.5	9630.2
67.5°	13414.6	13619.0	14623.1	17146.1	21023.1	22268.4	22652.1	20311.5	17171.0	12475.1	6864.6
70°	13338.2	13619.0	15208.3	18753.0	23454.9	24290.0	23125.5	18382.5	13635.1	8149.6	3646.2
72.5°	11844.3	12245.7	14015.9	18016.4	22688.9	22615.4	20076.2	13704.2	8101.1	3272.8	1424.7
75°	9027.3	9433.1	10956.3	14233.5	17932.6	17315.2	14245.3	7570.3	3074.3	1299.7	898.4
77.5°	5192.9	5507.6	6683.8	8728.8	11376.8	10743.1	7929.1	3366.8	1496.7	905.7	701.3
80°	2899.3	3074.3	3788.8	4428.4	5575.2	5110.6	3547.7	2092.1	1117.4	657.2	541.0
82.5°	2292.1	2447.9	3064.0	2793.5	2546.4	2349.4	2037.7	1862.8	892.4	414.6	323.5
85°	2002.5	2151.0	2593.5	2199.4	1739.3	1595.2	1655.5	1833.4	694.0	249.9	276.4
87.5°	1855.4	2054.0	2311.3	1695.2	1354.1	1199.7	1527.6	2009.8	223.5	155.9	111.7
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°	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2	4390.2
2.5°	4337.2	4313.7	4275.5	4241.7	4188.8	4160.9	4130.0	4107.9	4090.3	4075.5	4099.1
5°	4203.4	4159.3	4078.5	3991.8	3888.8	3807.9	3740.3	3677.1	3633.0	3603.5	3624.2
7.5°	4077.0	4005.0	3878.5	3721.2	3544.7	3394.8	3271.3	3162.6	3087.6	3039.0	3058.1
10°	4005.0	3915.2	3719.8	3472.7	3212.5	2978.7	2784.7	2617.0	2500.9	2434.7	2445.1
12.5°	3987.4	3871.2	3600.7	3261.1	2905.2	2580.3	2306.9	2074.5	1911.3	1826.1	1829.0
15°	4000.6	3852.0	3488.9	3058.1	2608.2	2198.0	1857.0	1574.6	1385.0	1287.9	1286.5
17.5°	4022.7	3837.4	3371.2	2839.1	2306.9	1830.5	1449.6	1173.2	1005.7	927.7	921.9
20°	4046.2	3813.9	3239.0	2602.4	1993.6	1489.3	1135.1	918.9	813.0	770.4	767.5
22.5°	4079.9	3793.2	3102.2	2352.4	1686.3	1212.9	933.6	788.1	732.2	710.1	707.2
25°	4134.4	3783.0	2956.6	2092.1	1409.9	1014.5	813.0	723.3	691.0	676.3	674.8
27.5°	4225.5	3797.7	2820.0	1839.3	1185.0	880.7	745.4	691.0	667.5	654.3	652.7
30°	4343.1	3843.2	2675.8	1599.6	1010.1	789.5	704.2	669.0	649.9	636.6	636.6
32.5°	4538.6	3919.6	2524.4	1392.3	885.1	726.3	673.4	649.9	633.7	623.4	622.0
35°	4826.8	4063.8	2383.3	1220.3	795.4	680.8	646.9	629.2	617.6	611.6	611.6
37.5°	5245.9	4291.7	2258.3	1096.8	741.0	649.9	622.0	608.7	601.3	601.3	601.3
40°	5808.9	4606.3	2156.9	1014.5	710.1	627.8	602.8	592.5	588.1	589.5	589.5
42.5°	6504.4	5015.0	2089.3	957.2	695.4	614.6	589.5	580.7	576.3	574.9	576.3
45°	7296.8	5479.6	2081.9	914.5	680.8	605.8	580.7	571.9	563.1	557.2	557.2
47.5°	8067.3	5951.5	2142.2	899.8	664.5	595.5	573.4	564.6	551.4	538.1	538.1
50°	8748.0	6352.9	2223.0	905.7	658.7	580.7	561.6	557.2	536.6	521.9	520.5
52.5°	9289.0	6661.7	2289.2	923.3	664.5	570.5	547.0	548.4	526.3	510.1	508.7
55°	9722.7	6864.6	2271.6	940.9	677.8	564.6	533.7	536.6	519.0	502.8	502.8
57.5°	9912.4	6789.6	2076.0	926.3	688.0	566.0	523.4	535.2	520.5	505.7	505.7
60°	9505.2	6123.6	1709.9	861.5	674.8	561.6	519.0	541.0	539.6	524.9	523.4
62.5°	8273.1	4931.2	1326.2	766.0	629.2	539.6	507.3	539.6	555.8	551.4	549.8
65°	6376.5	3512.4	1013.0	663.1	567.5	502.8	476.4	505.7	527.8	533.7	532.2
67.5°	4138.8	2152.5	780.7	566.0	498.4	460.2	436.7	449.9	454.3	454.3	451.3
70°	2034.9	1158.6	622.0	476.4	427.8	414.6	401.4	394.0	386.7	380.8	380.8
72.5°	1004.2	757.2	511.7	402.8	369.1	363.1	360.2	351.4	345.6	338.2	335.2
75°	742.5	616.0	435.2	339.6	317.5	311.7	317.5	310.3	308.7	302.9	299.9
77.5°	610.2	524.9	374.9	291.1	272.0	261.7	270.6	272.0	273.4	264.6	261.7
80°	495.5	444.1	313.1	241.1	223.5	216.1	222.0	233.7	236.7	223.5	217.6
82.5°	357.3	363.1	252.9	188.2	173.5	167.6	179.3	194.1	197.0	177.9	173.5
85°	299.9	302.9	194.1	133.8	119.1	110.3	129.4	144.1	154.4	135.2	130.8
87.5°	125.0	177.9	111.7	75.0	66.2	57.4	69.2	76.4	92.6	85.3	83.8
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)