

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: P192042

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192042  
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-SL4-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 800mA 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: 18434 lumens  
Efficiency: N/A  
Efficacy: 107.8 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): 171  
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

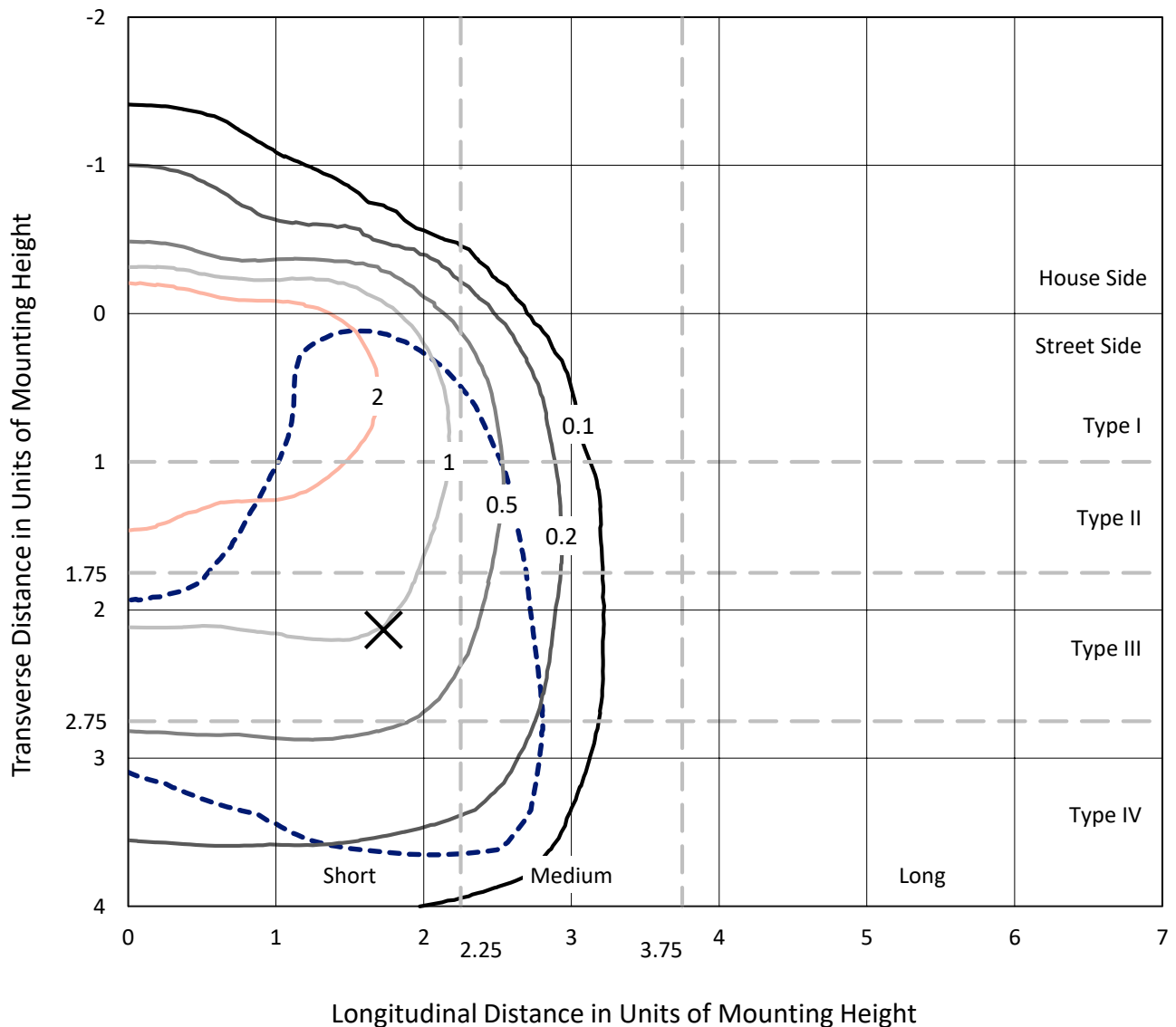


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

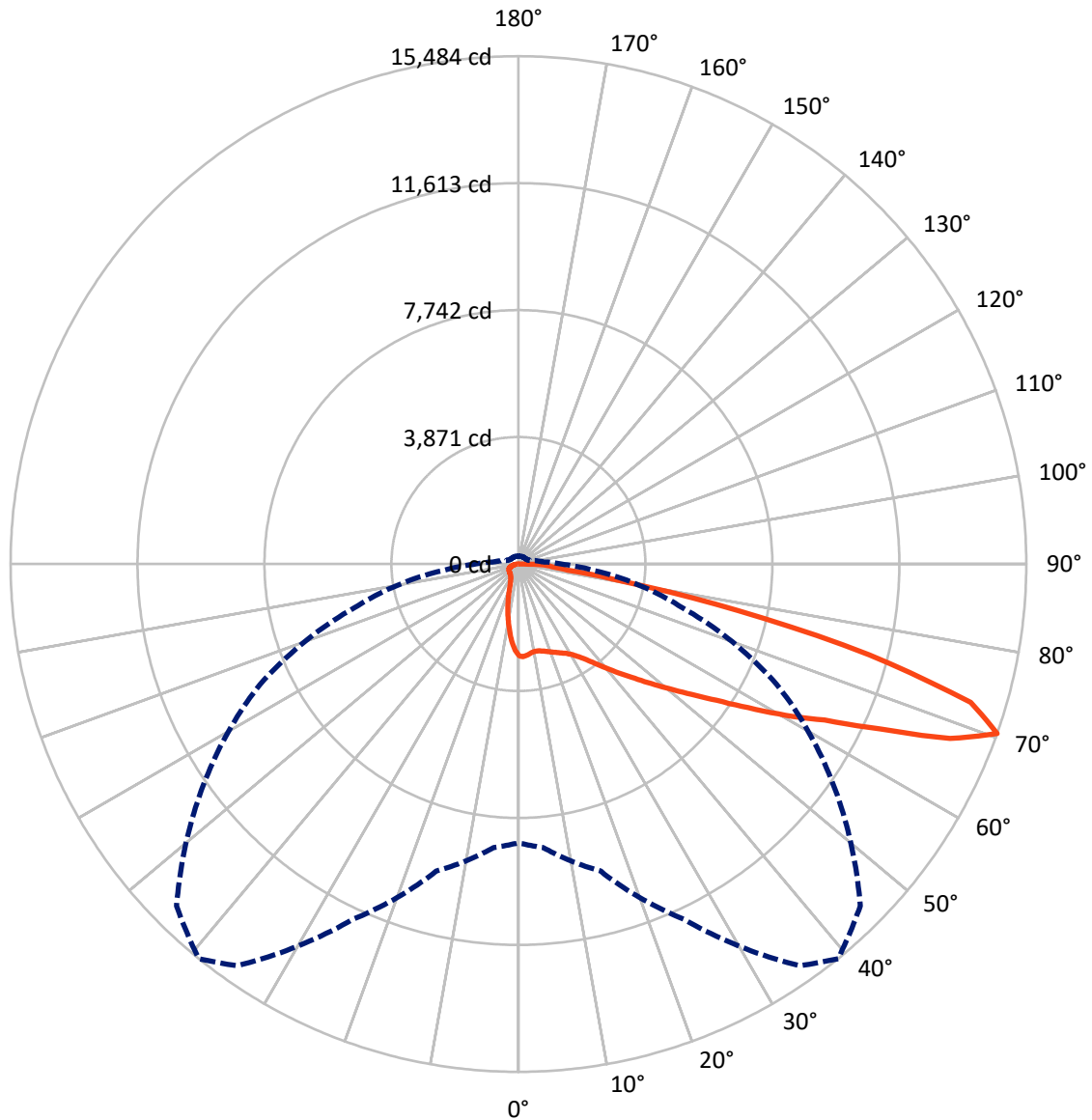


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	2096.6	0.0	2096.6
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	16337.4	0.0	16337.4
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	18434.0	0.0	18434.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.2	1.3
10°-20°	600.3	3.3
20°-30°	934.7	5.1
30°-40°	1456.2	7.9
40°-50°	2444.6	13.3
50°-60°	3883.5	21.1
60°-70°	5180.2	28.1
70°-80°	3128.2	17.0
80°-90°	566.2	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°	18434.0	100.0
0°-180°	18434.0	100.0

**Coefficient of Utilization**



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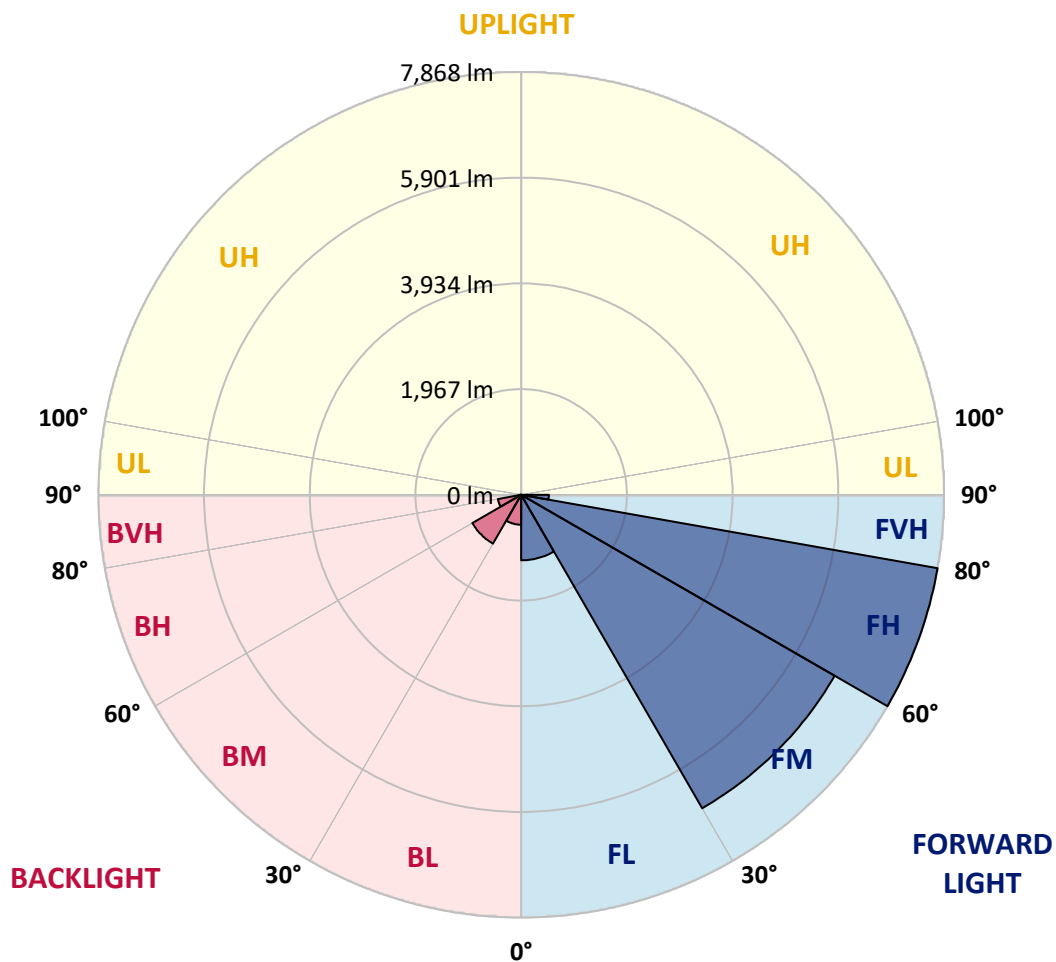
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.1	6.6			
FM	(30°-60°)	6735.1	36.5			
FH	(60°-80°)	7868.2	42.7			G4/12000
FVH	(80°-90°)	515.1	2.8			G4/750
BL	(0°-30°)	556.2	3.0	B2/1000		
BM	(30°-60°)	1049.2	5.7	B2/2500		
BH	(60°-80°)	440.2	2.4	B1/500		G1/500
BVH	(80°-90°)	51.0	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6
2.5°	2852.9	2852.0	2844.5	2838.9	2834.2	2832.3	2836.1	2822.0	2809.8	2794.8	2778.9
5°	2831.4	2830.4	2818.2	2807.0	2795.8	2792.0	2791.1	2765.8	2750.8	2728.3	2698.3
7.5°	2807.9	2803.3	2787.3	2768.6	2748.9	2739.5	2730.1	2697.3	2680.5	2658.0	2623.3
10°	2783.6	2777.9	2763.0	2744.2	2725.5	2711.4	2695.5	2663.6	2645.8	2628.9	2588.6
12.5°	2758.3	2753.6	2749.8	2741.4	2728.3	2716.1	2703.9	2676.7	2658.0	2638.3	2591.4
15°	2754.5	2752.6	2761.1	2766.7	2759.2	2751.7	2738.6	2715.2	2695.5	2675.8	2614.9
17.5°	2784.5	2783.6	2805.1	2820.1	2816.4	2803.3	2785.4	2759.2	2743.3	2726.4	2650.5
20°	2850.1	2854.8	2881.0	2900.7	2882.0	2863.2	2834.2	2797.6	2789.2	2781.7	2687.0
22.5°	2973.8	2978.5	2997.3	3004.8	2956.0	2928.8	2888.5	2841.7	2836.1	2841.7	2731.1
25°	3166.9	3162.2	3159.4	3131.3	3042.2	3000.1	2948.5	2899.8	2902.6	2927.9	2792.9
27.5°	3422.8	3397.5	3358.1	3273.7	3132.2	3085.4	3022.6	2977.6	2995.4	3044.1	2885.7
30°	3688.0	3659.9	3569.0	3431.2	3250.3	3198.8	3128.5	3077.9	3124.7	3201.6	3009.4
32.5°	3933.6	3929.8	3796.7	3619.6	3413.4	3368.4	3298.1	3240.9	3316.9	3434.0	3195.0
35°	4201.6	4210.0	4050.7	3838.0	3633.6	3586.8	3536.2	3493.1	3594.3	3755.5	3464.0
37.5°	4488.4	4505.3	4316.9	4076.9	3884.8	3865.1	3835.1	3816.4	3972.9	4196.0	3839.8
40°	4871.7	4854.8	4593.4	4346.9	4193.2	4192.2	4182.9	4205.3	4465.9	4771.4	4322.5
42.5°	5282.2	5232.6	4886.7	4636.5	4531.5	4563.4	4582.1	4674.0	5059.2	5470.6	4911.1
45°	5724.6	5613.1	5191.3	4942.9	4907.3	4974.8	5038.5	5238.2	5757.4	6266.3	5555.9
47.5°	6077.9	5970.2	5506.2	5264.4	5342.2	5444.4	5567.1	5883.0	6539.0	7088.3	6192.3
50°	6356.3	6286.0	5823.9	5639.3	5821.1	5978.6	6179.2	6613.1	7352.6	7888.7	6781.8
52.5°	6626.2	6573.7	6144.5	6023.6	6383.5	6600.9	6873.6	7396.6	8186.7	8675.9	7277.6
55°	6869.9	6832.4	6489.4	6502.5	7045.2	7328.2	7671.2	8288.9	9095.8	9377.9	7697.5
57.5°	7144.5	7096.7	6883.0	7103.3	7895.2	8262.6	8708.7	9291.7	9948.7	10002.1	8017.1
60°	7421.0	7379.7	7319.8	7796.8	8974.9	9361.0	9783.7	10263.6	10813.8	10486.7	7998.3
62.5°	7660.9	7665.6	7771.5	8525.0	10032.1	10479.2	10994.6	11468.9	11596.3	10571.0	7406.9
65°	8067.7	8141.7	8457.6	9556.0	11520.4	12118.4	12751.0	12675.1	11812.8	9782.8	6138.9
67.5°	8551.3	8681.6	9321.7	10930.0	13401.4	14195.3	14439.9	12947.8	10945.9	7952.4	4375.9
70°	8502.5	8681.6	9694.7	11954.4	14951.6	15484.0	14741.7	11718.2	8691.9	5195.1	2324.3
72.5°	7550.3	7806.2	8934.6	11484.8	14463.3	14416.5	12797.9	8735.9	5164.1	2086.3	908.2
75°	5754.6	6013.3	6984.2	9073.3	11431.4	11037.8	9080.8	4825.8	1959.7	828.5	572.6
77.5°	3310.3	3510.9	4260.6	5564.3	7252.3	6848.3	5054.5	2146.3	954.1	577.3	447.1
80°	1848.2	1959.7	2415.2	2822.9	3554.0	3257.8	2261.5	1333.7	712.3	418.9	344.9
82.5°	1461.1	1560.5	1953.2	1780.7	1623.3	1497.7	1299.0	1187.5	568.9	264.3	206.2
85°	1276.5	1371.2	1653.3	1402.1	1108.7	1016.9	1055.3	1168.7	442.4	159.3	176.2
87.5°	1182.8	1309.3	1473.3	1080.6	863.2	764.8	973.8	1281.2	142.5	99.3	71.2
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°	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6
2.5°	2764.8	2749.8	2725.5	2703.9	2670.2	2652.4	2632.7	2618.6	2607.4	2598.0	2613.0
5°	2679.5	2651.4	2599.9	2544.6	2479.0	2427.4	2384.3	2344.0	2315.9	2297.1	2310.3
7.5°	2598.9	2553.0	2472.4	2372.1	2259.7	2164.1	2085.3	2016.0	1968.2	1937.3	1949.4
10°	2553.0	2495.8	2371.2	2213.7	2047.8	1898.8	1775.1	1668.3	1594.2	1552.1	1558.6
12.5°	2541.8	2467.7	2295.3	2078.8	1852.0	1644.8	1470.5	1322.4	1218.4	1164.0	1165.9
15°	2550.2	2455.5	2224.0	1949.4	1662.6	1401.2	1183.7	1003.8	882.9	821.0	820.1
17.5°	2564.3	2446.2	2149.1	1809.8	1470.5	1166.9	924.1	747.9	641.1	591.4	587.6
20°	2579.3	2431.2	2064.7	1658.9	1270.9	949.4	723.5	585.8	518.3	491.1	489.2
22.5°	2600.8	2418.1	1977.6	1499.6	1075.0	773.2	595.1	502.4	466.7	452.7	450.8
25°	2635.5	2411.5	1884.8	1333.7	898.8	646.7	518.3	461.1	440.5	431.1	430.2
27.5°	2693.6	2420.9	1797.6	1172.5	755.4	561.4	475.2	440.5	425.5	417.1	416.1
30°	2768.6	2449.9	1705.8	1019.7	643.9	503.3	448.9	426.4	414.3	405.8	405.8
32.5°	2893.2	2498.7	1609.2	887.6	564.2	463.0	429.3	414.3	403.9	397.4	396.4
35°	3076.9	2590.5	1519.2	777.9	507.0	433.9	412.4	401.1	393.6	389.9	389.9
37.5°	3344.0	2735.8	1439.6	699.2	472.4	414.3	396.4	388.0	383.3	383.3	383.3
40°	3703.0	2936.3	1374.9	646.7	452.7	400.2	384.3	377.7	374.9	375.8	375.8
42.5°	4146.3	3196.9	1331.8	610.1	443.3	391.8	375.8	370.2	367.4	366.5	367.4
45°	4651.5	3493.1	1327.1	583.0	433.9	386.1	370.2	364.6	359.0	355.2	355.2
47.5°	5142.6	3793.9	1365.5	573.6	423.6	379.6	365.5	359.9	351.5	343.0	343.0
50°	5576.5	4049.8	1417.1	577.3	419.9	370.2	358.0	355.2	342.1	332.7	331.8
52.5°	5921.4	4246.6	1459.3	588.6	423.6	363.6	348.6	349.6	335.5	325.2	324.3
55°	6197.9	4375.9	1448.0	599.8	432.1	359.9	340.2	342.1	330.8	320.5	320.5
57.5°	6318.8	4328.1	1323.4	590.5	438.6	360.8	333.7	341.2	331.8	322.4	322.4
60°	6059.2	3903.6	1090.0	549.2	430.2	358.0	330.8	344.9	344.0	334.6	333.7
62.5°	5273.8	3143.5	845.4	488.3	401.1	344.0	323.3	344.0	354.3	351.5	350.5
65°	4064.8	2239.0	645.8	422.7	361.8	320.5	303.7	322.4	336.5	340.2	339.3
67.5°	2638.3	1372.1	497.7	360.8	317.7	293.4	278.4	286.8	289.6	289.6	287.7
70°	1297.1	738.5	396.4	303.7	272.7	264.3	255.9	251.2	246.5	242.7	242.7
72.5°	640.1	482.7	326.2	256.8	235.2	231.5	229.6	224.0	220.2	215.6	213.7
75°	473.3	392.7	277.4	216.5	202.4	198.7	202.4	197.8	196.8	193.1	191.2
77.5°	389.0	334.6	239.0	185.6	173.4	166.8	172.5	173.4	174.3	168.7	166.8
80°	315.8	283.0	199.6	153.7	142.5	137.8	141.5	149.0	150.9	142.5	138.7
82.5°	227.7	231.5	161.2	120.0	110.6	106.8	114.3	123.7	125.6	113.4	110.6
85°	191.2	193.1	123.7	85.3	75.9	70.3	82.5	91.8	98.4	86.2	83.4
87.5°	79.7	113.4	71.2	47.8	42.2	36.6	44.0	48.7	59.0	54.4	53.4
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)