

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: P941456

Luminaire Tested: **GALN-SB5A-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17771 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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: 24 FT

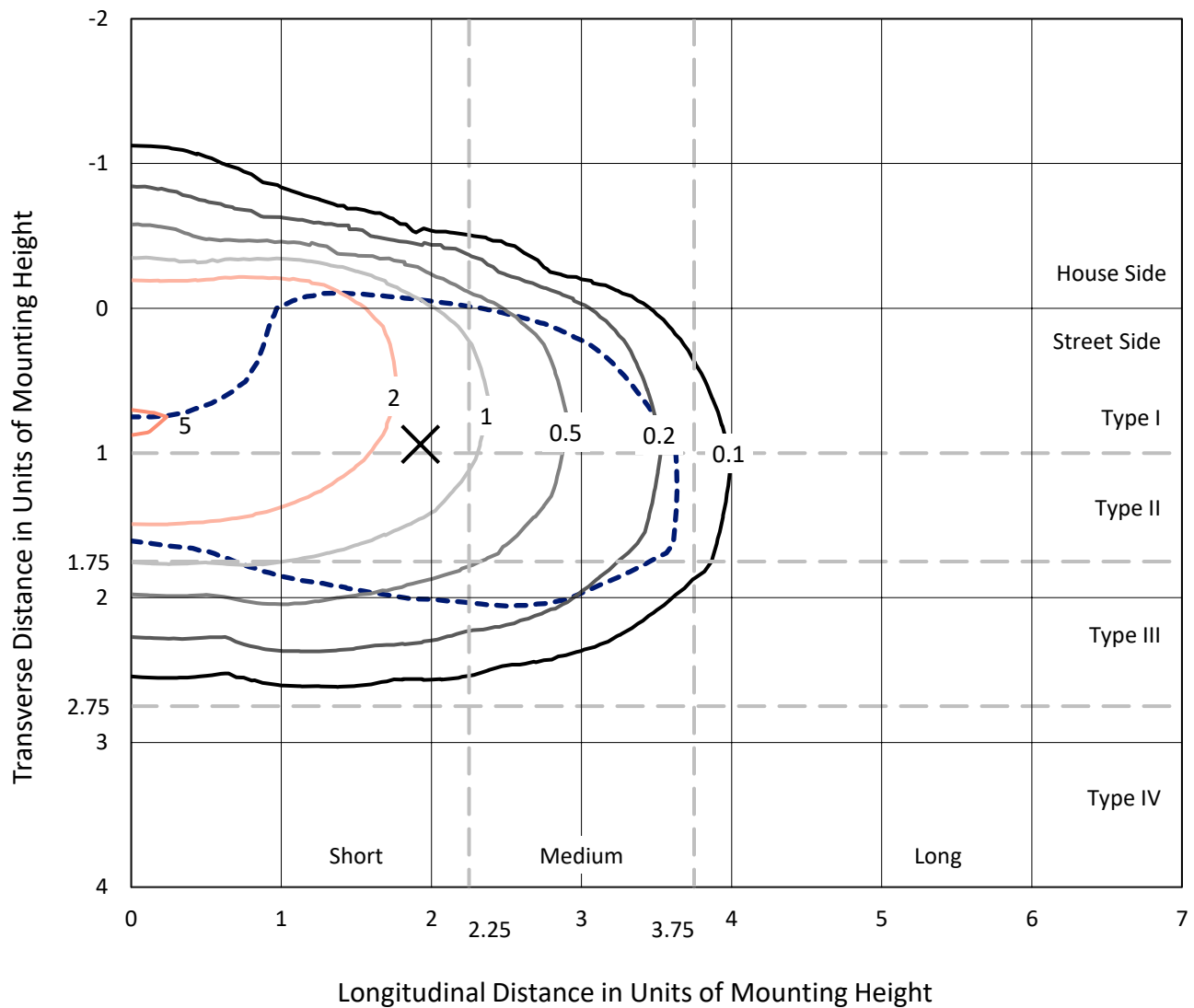


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

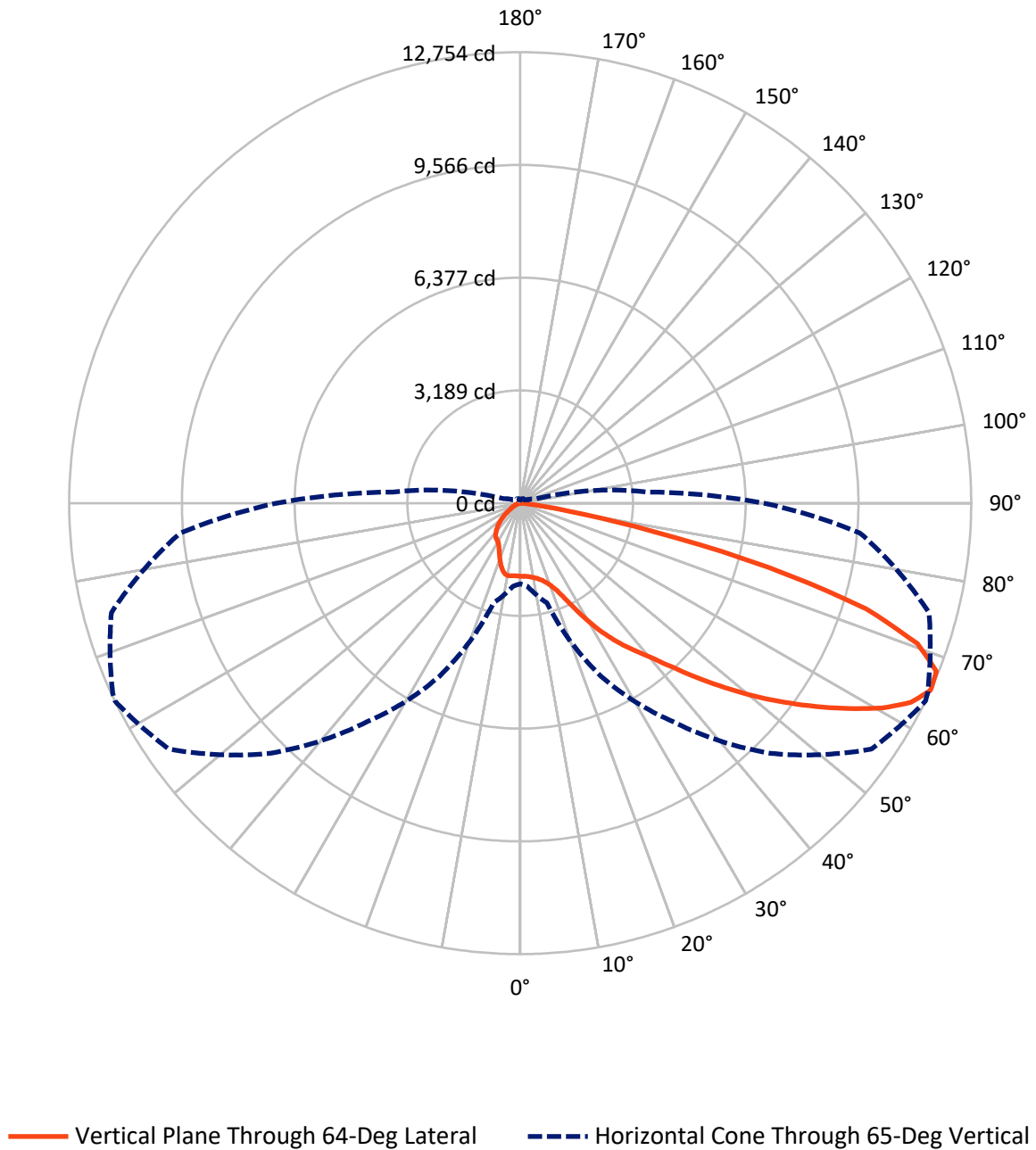


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2376.5	0.0	2376.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15394.5	0.0	15394.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	17771.0	0.0	17771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	1.1
10°-20°	517.2	2.9
20°-30°	980.1	5.5
30°-40°	1983.3	11.2
40°-50°	3378.5	19.0
50°-60°	4594.5	25.9
60°-70°	4314.5	24.3
70°-80°	1728.6	9.7
80°-90°	83.7	0.5
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°	17771.0	100.0
0°-180°	17771.0	100.0

Coefficient of Utilization



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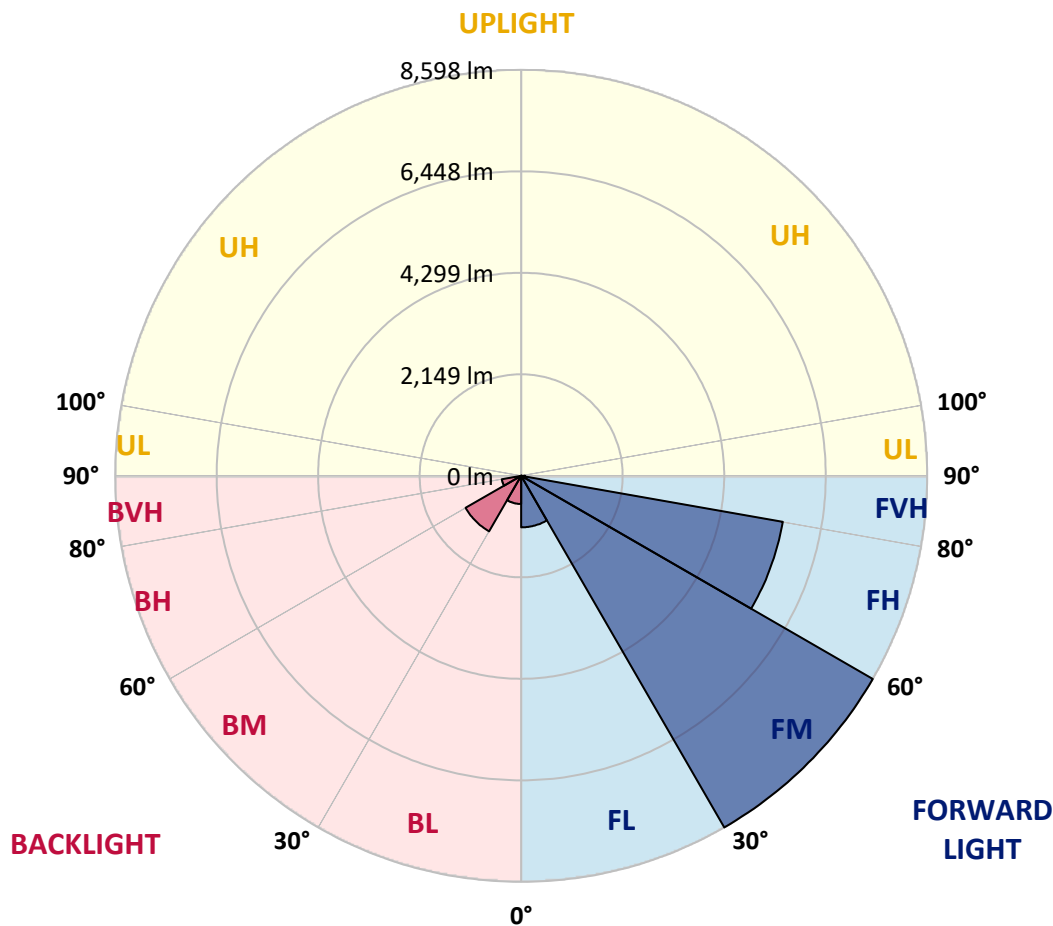
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.3	6.1			
FM	(30°-60°)	8597.6	48.4			
FH	(60°-80°)	5625.9	31.7			G3/7500
FVH	(80°-90°)	79.7	0.4			G1/100
BL	(0°-30°)	596.7	3.4	B2/1000		
BM	(30°-60°)	1358.6	7.6	B2/2500		
BH	(60°-80°)	417.1	2.3	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2059.8	2074.1	2070.5	2067.0	2065.8	2068.1	2069.3	2068.1	2068.1	2068.1	2069.3
5°	2020.5	2032.4	2032.4	2040.7	2052.7	2067.0	2077.7	2080.1	2082.4	2086.0	2084.8
7.5°	1945.4	1955.0	1962.1	1989.5	2019.3	2057.4	2089.6	2106.3	2108.6	2121.8	2126.5
10°	1894.2	1906.1	1918.0	1946.6	1989.5	2046.7	2101.5	2142.0	2148.0	2178.9	2193.2
12.5°	1891.8	1903.7	1919.2	1950.2	2000.2	2061.0	2127.7	2186.1	2196.8	2242.1	2271.9
15°	1916.8	1931.1	1945.4	1983.6	2037.2	2111.0	2182.5	2255.2	2265.9	2330.2	2362.4
17.5°	1968.1	1987.1	1997.9	2036.0	2093.2	2175.4	2269.5	2352.9	2362.4	2437.5	2478.0
20°	2069.3	2092.0	2095.5	2126.5	2182.5	2270.7	2382.7	2486.3	2498.2	2584.0	2629.3
22.5°	2279.0	2311.2	2282.6	2298.1	2348.1	2436.3	2557.8	2688.8	2705.5	2803.2	2843.7
25°	2648.3	2693.6	2619.7	2593.5	2615.0	2706.7	2859.2	3024.8	3043.8	3122.5	3142.7
27.5°	3373.8	3315.5	3203.5	3093.9	3029.5	3082.0	3253.5	3458.4	3482.2	3558.5	3534.7
30°	4170.8	4119.6	3968.3	3725.3	3572.8	3564.4	3722.9	3951.6	3979.0	4051.7	3979.0
32.5°	4969.0	4920.2	4755.8	4456.8	4192.3	4061.2	4170.8	4424.6	4438.9	4485.3	4378.1
35°	5754.1	5704.1	5539.7	5233.5	4908.3	4610.4	4589.0	4874.9	4879.7	4928.5	4768.9
37.5°	6544.0	6502.3	6327.1	6026.9	5706.5	5295.4	5096.5	5301.4	5307.4	5355.0	5189.4
40°	7107.5	7125.3	7005.0	6772.7	6497.5	6048.4	5665.9	5755.3	5719.6	5799.4	5700.5
42.5°	7591.1	7626.9	7522.0	7405.3	7245.6	6850.1	6371.2	6355.7	6298.5	6341.4	6239.0
45°	8009.3	8039.1	7945.0	7917.6	7914.0	7636.4	7142.0	7049.1	6969.3	6960.9	6838.2
47.5°	8163.0	8220.2	8260.7	8352.4	8531.1	8414.3	7939.0	7794.9	7705.5	7640.0	7445.8
50°	8221.3	8282.1	8420.3	8687.2	9110.1	9160.1	8732.4	8570.4	8460.8	8341.7	8055.8
52.5°	8142.7	8251.1	8437.0	8886.1	9499.6	9758.2	9493.7	9351.9	9226.8	9032.6	8608.5
55°	7679.3	7787.7	8167.7	8883.7	9693.8	10177.5	10213.2	10150.1	10009.5	9703.4	9055.3
57.5°	6702.4	6863.2	7464.9	8581.1	9690.3	10538.5	10918.5	10963.8	10806.5	10368.1	9406.7
60°	5349.1	5567.1	6300.9	7910.4	9391.2	10733.9	11536.8	11763.2	11596.4	11023.3	9691.4
62.5°	3732.4	3985.0	4679.5	6859.7	8707.4	10593.3	11988.3	12406.5	12280.2	11609.5	9801.0
65°	2276.6	2357.6	2917.6	5397.9	7544.7	10004.8	12127.7	12754.3	12712.6	11968.1	9639.0
67.5°	1516.6	1584.5	1745.3	3701.5	5856.6	8828.9	11794.1	12693.6	12705.5	11909.7	9045.7
70°	913.7	972.1	1077.0	2152.7	3795.6	6988.3	10761.3	11919.2	11988.3	11129.4	7921.1
72.5°	376.5	415.8	511.1	975.7	1965.7	4435.3	8569.2	10233.5	10394.3	9357.9	6079.3
75°	213.2	233.5	300.2	489.6	853.0	2067.0	5190.6	7264.7	7501.8	6449.8	3657.4
77.5°	141.8	151.3	194.2	316.9	480.1	705.3	2218.3	3784.8	4237.5	3522.8	1583.3
80°	95.3	103.6	133.4	212.1	312.1	302.6	706.5	1402.2	1725.0	1210.4	386.0
82.5°	64.3	65.5	95.3	139.4	197.8	146.5	208.5	436.0	548.0	350.3	146.5
85°	36.9	35.7	70.3	81.0	88.2	60.8	63.1	131.0	171.6	147.7	83.4
87.5°	4.8	7.1	27.4	21.4	11.9	13.1	13.1	22.6	33.4	35.7	17.9
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°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2069.3	2068.1	2064.6	2061.0	2052.7	2047.9	2050.3	2047.9	2046.7	2047.9	2052.7
5°	2084.8	2081.2	2071.7	2059.8	2043.1	2022.9	2009.8	1990.7	1972.8	1962.1	1964.5
7.5°	2126.5	2122.9	2109.8	2076.5	2022.9	1938.3	1860.9	1792.9	1741.7	1711.9	1713.1
10°	2193.2	2187.3	2167.0	2093.2	1952.6	1767.9	1614.2	1486.8	1403.4	1364.1	1360.5
12.5°	2271.9	2264.7	2229.0	2077.7	1819.2	1530.9	1318.8	1177.0	1099.6	1065.0	1061.5
15°	2364.8	2355.3	2285.0	2003.8	1625.0	1268.8	1074.6	968.5	918.5	887.5	888.7
17.5°	2480.3	2463.7	2326.7	1893.0	1414.1	1068.6	924.5	844.7	800.6	770.8	768.4
20°	2630.4	2603.0	2360.0	1760.8	1219.9	942.3	823.2	756.5	723.1	696.9	692.2
22.5°	2840.1	2800.8	2400.5	1617.8	1082.9	855.4	748.2	699.3	671.9	642.1	637.4
25°	3099.8	3053.4	2450.6	1485.6	988.8	780.3	693.4	652.8	620.7	586.1	582.6
27.5°	3463.2	3379.8	2510.1	1377.2	907.8	716.0	643.3	598.0	561.1	532.5	526.6
30°	3868.2	3731.2	2562.5	1311.7	833.9	656.4	577.8	532.5	498.0	477.7	474.1
32.5°	4251.8	4066.0	2597.1	1283.1	767.2	588.5	506.3	457.5	431.3	425.3	428.9
35°	4614.0	4368.6	2593.5	1255.7	707.6	520.6	436.0	386.0	365.7	369.3	369.3
37.5°	5031.0	4691.4	2568.5	1212.8	658.8	458.7	375.3	331.2	313.3	314.5	319.3
40°	5515.8	5064.3	2553.0	1131.8	605.2	401.5	325.2	289.5	276.4	271.6	270.4
42.5°	6032.9	5425.3	2555.4	1040.0	538.5	350.3	290.7	260.9	249.0	245.4	244.2
45°	6552.3	5769.6	2559.0	944.7	468.2	310.9	265.7	240.6	233.5	228.7	228.7
47.5°	7040.7	6062.7	2492.3	842.3	399.1	281.2	245.4	228.7	222.8	216.8	216.8
50°	7495.8	6258.0	2331.4	723.1	344.3	257.3	229.9	218.0	212.1	206.1	206.1
52.5°	7849.7	6289.0	2065.8	600.4	306.2	239.5	220.4	209.7	202.5	196.6	195.4
55°	8006.9	6094.8	1688.1	486.1	276.4	224.0	210.9	200.1	191.8	185.8	184.7
57.5°	7966.4	5686.2	1316.4	390.8	247.8	208.5	199.0	191.8	182.3	172.7	171.6
60°	7767.5	5139.4	992.4	325.2	221.6	191.8	185.8	179.9	166.8	152.5	150.1
62.5°	7423.2	4452.0	707.6	269.2	193.0	172.7	170.4	165.6	146.5	120.3	117.9
65°	6896.6	3616.9	476.5	224.0	165.6	151.3	152.5	144.2	119.1	89.3	87.0
67.5°	6127.0	2644.7	305.0	183.5	138.2	126.3	127.5	122.7	101.3	76.2	72.7
70°	5146.5	1751.3	199.0	139.4	110.8	97.7	104.8	106.0	85.8	61.9	59.6
72.5°	3772.9	1034.1	139.4	103.6	81.0	67.9	85.8	88.2	69.1	46.5	44.1
75°	2150.3	490.8	104.8	75.1	50.0	47.7	66.7	66.7	47.7	31.0	28.6
77.5°	903.0	204.9	73.9	48.8	28.6	27.4	45.3	41.7	23.8	14.3	14.3
80°	260.9	91.7	39.3	23.8	11.9	10.7	17.9	13.1	6.0	2.4	2.4
82.5°	102.5	40.5	15.5	9.5	4.8	4.8	2.4	0.0	0.0	0.0	0.0
85°	60.8	16.7	7.1	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)