

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: P456189

Luminaire Tested: **GALN-SA7B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22679 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): 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

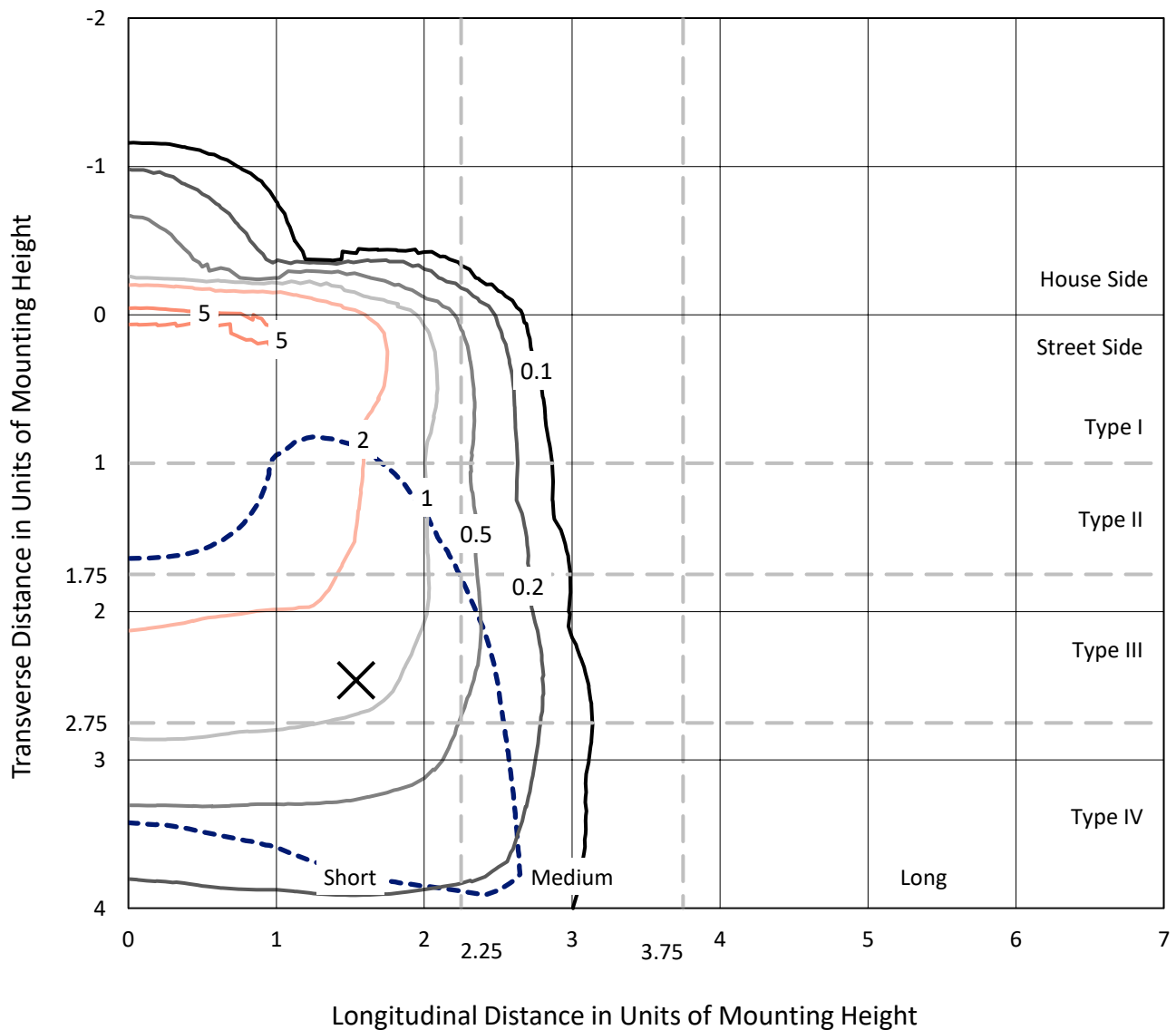


REPORT NUMBER: P456189

CATALOG NUMBER: GALN-SA7B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

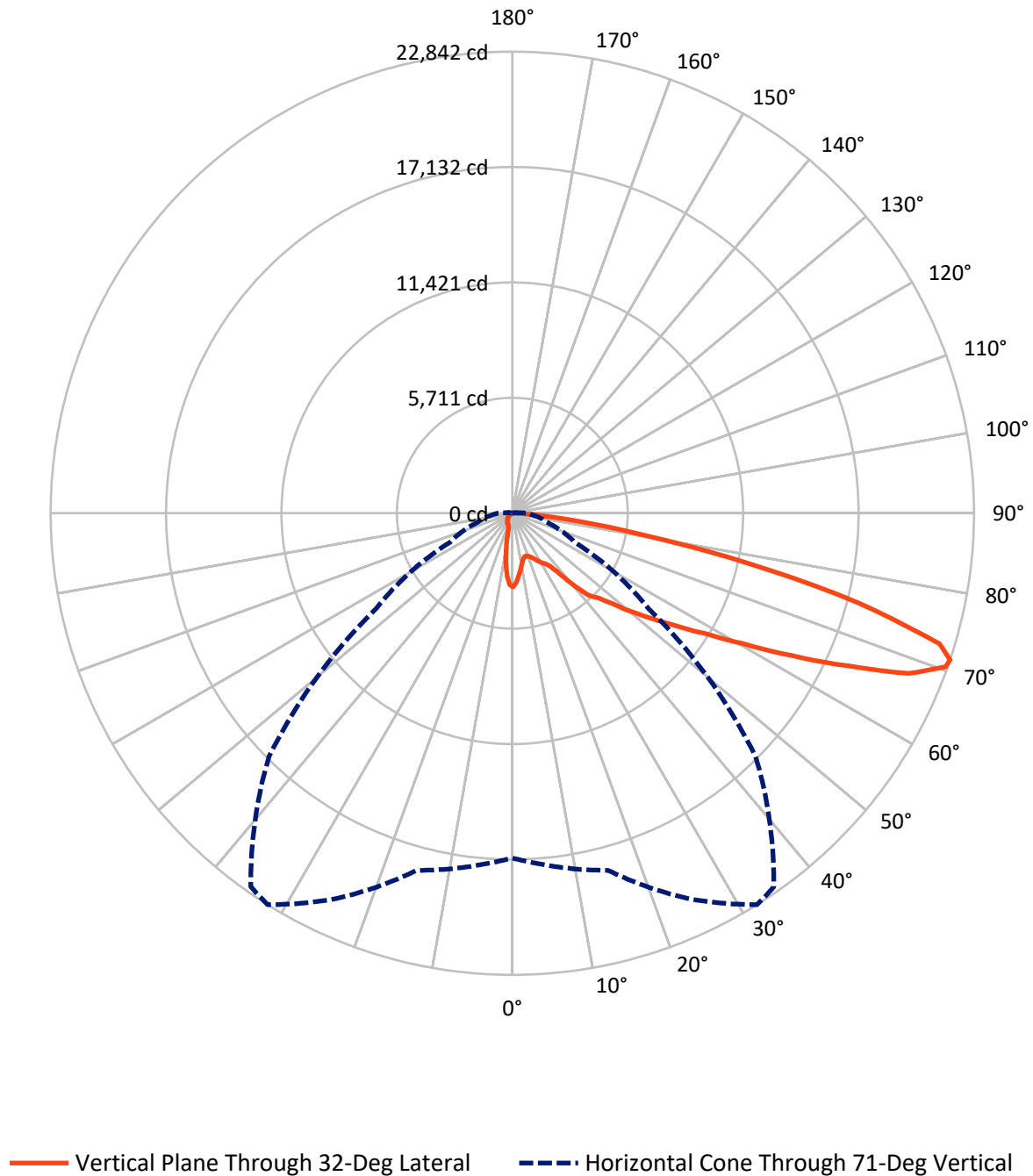
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P456189
CATALOG NUMBER: GALN-SA7B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1899.6	0.0	1899.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20779.4	0.0	20779.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	22679.0	0.0	22679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.3
10°-20°	643.6	2.8
20°-30°	1001.3	4.4
30°-40°	1668.2	7.4
40°-50°	3103.0	13.7
50°-60°	4982.1	22.0
60°-70°	6701.1	29.5
70°-80°	3975.8	17.5
80°-90°	307.3	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°	22679.0	100.0
0°-180°	22679.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456189

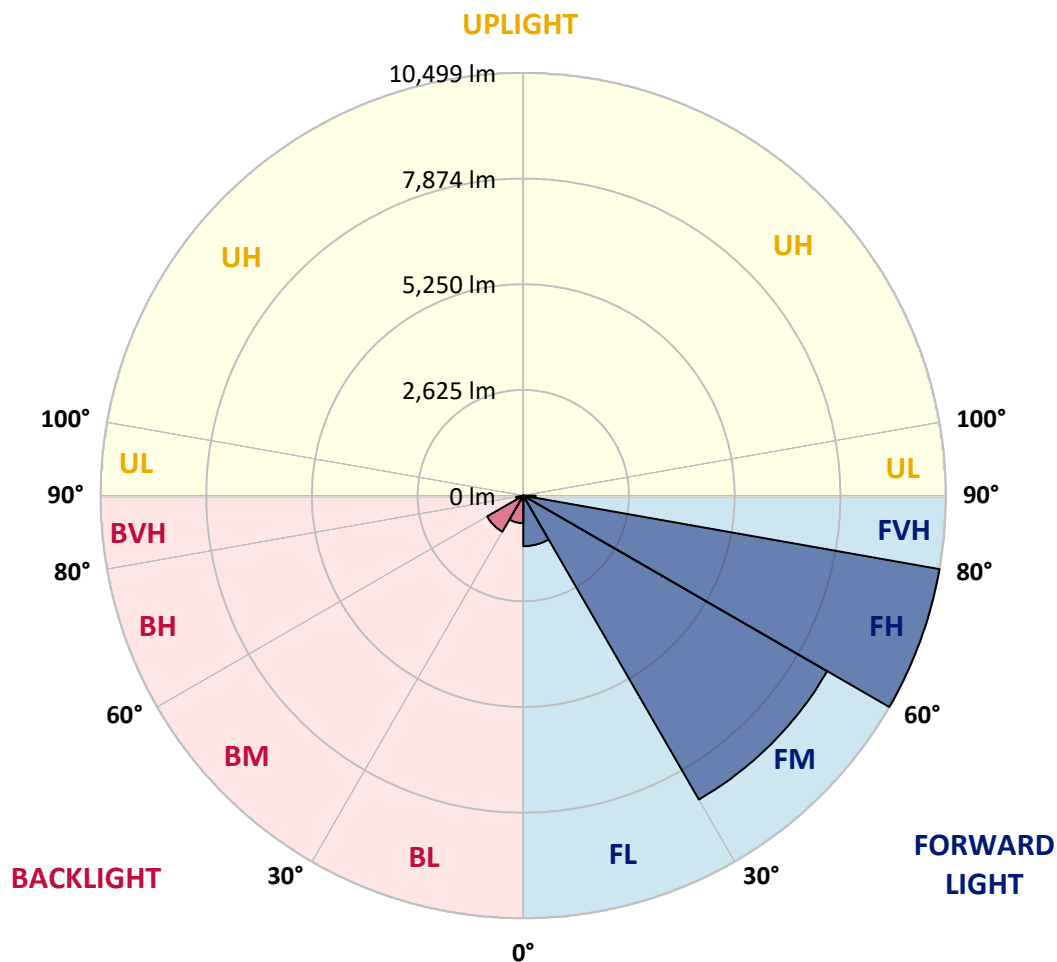
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.0	5.5			
FM	(30°-60°)	8717.0	38.4			
FH	(60°-80°)	10499.3	46.3			G4/12000
FVH	(80°-90°)	306.1	1.3			G3/500
BL	(0°-30°)	684.5	3.0	B2/1000		
BM	(30°-60°)	1036.3	4.6	B2/2500		
BH	(60°-80°)	177.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G4

Type IV Short





REPORT NUMBER: P456189

CATALOG NUMBER: GALN-SA7B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1
2.5°	3382.5	3417.3	3412.1	3424.3	3453.9	3466.1	3499.2	3535.7	3586.2	3621.0	3643.7
5°	3029.1	3055.2	3058.7	3119.7	3149.2	3182.3	3279.8	3386.0	3504.4	3598.4	3661.1
7.5°	2651.4	2665.3	2693.1	2773.2	2848.1	2881.2	3029.1	3213.7	3399.9	3575.8	3688.9
10°	2339.7	2355.4	2405.9	2491.2	2560.8	2604.4	2809.8	3041.3	3302.4	3563.6	3729.0
12.5°	2162.2	2170.9	2190.0	2266.6	2355.4	2402.4	2623.5	2888.1	3224.1	3568.8	3796.9
15°	2150.0	2146.5	2123.9	2155.2	2235.3	2284.0	2499.9	2783.7	3154.5	3586.2	3876.9
17.5°	2214.4	2205.7	2151.7	2151.7	2217.9	2257.9	2447.7	2728.0	3119.7	3626.2	3990.1
20°	2313.6	2299.7	2210.9	2204.0	2268.4	2310.1	2479.0	2731.4	3126.6	3701.1	4141.5
22.5°	2439.0	2423.3	2289.3	2292.7	2362.4	2404.2	2569.5	2794.1	3170.1	3793.4	4303.4
25°	2602.6	2585.2	2426.8	2419.8	2492.9	2529.5	2703.6	2905.5	3231.1	3908.3	4515.8
27.5°	2820.2	2783.7	2593.9	2583.5	2661.8	2708.8	2865.5	3055.2	3339.0	4066.7	4801.3
30°	2999.5	2959.5	2778.4	2750.6	2834.1	2870.7	3032.6	3257.2	3551.4	4343.5	5196.5
32.5°	3234.5	3175.4	2963.0	2889.9	2978.6	3025.6	3274.6	3633.2	3866.5	4636.0	5666.6
35°	3763.8	3727.2	3467.8	3211.9	3206.7	3265.9	3631.5	4012.7	4190.3	5092.1	6307.2
37.5°	4521.1	4494.9	4219.9	3876.9	3777.7	3749.8	4064.9	4430.5	4707.3	5718.8	7052.3
40°	5400.2	5339.3	5086.8	4796.1	4667.3	4585.5	4576.8	5052.0	5382.8	6570.1	7828.7
42.5°	6030.4	5919.0	5612.6	5591.7	5563.8	5478.5	5231.3	5960.8	6255.0	7485.8	8659.1
45°	6691.9	6523.1	6067.0	5988.6	5978.2	5972.9	6220.2	7036.6	7205.5	8478.1	9512.2
47.5°	7205.5	7071.4	6697.2	6662.3	6705.9	6824.2	7527.6	8178.6	8143.8	9362.4	10227.7
50°	7889.7	7788.7	7372.6	7438.8	7663.3	7856.6	9002.1	9423.4	8915.0	10058.8	10748.2
52.5°	8697.4	8511.1	8124.7	8304.0	8648.7	8970.7	10567.1	10513.2	9456.4	10582.8	11136.4
55°	9397.3	9264.9	9132.6	9318.9	9834.2	10236.4	11980.7	11329.6	9849.9	11004.1	11307.0
57.5°	10581.1	10549.7	10413.9	10603.7	11228.7	11646.5	13246.3	11963.3	10102.3	11223.4	11106.8
60°	12332.4	12281.9	12029.5	12271.4	13086.2	13742.5	14412.7	12532.6	10159.8	11138.1	10530.6
62.5°	14438.8	14266.5	14050.6	14407.5	15525.1	15814.1	15511.2	12870.3	9945.6	10459.2	9141.3
65°	16406.0	16228.5	16233.7	16985.7	18202.6	18399.3	16792.5	12819.8	9318.9	8758.4	6742.4
67.5°	17911.9	17882.3	18094.7	19562.2	21153.4	21017.6	17938.0	12064.3	7461.4	5677.0	3582.7
70°	17988.5	18045.9	18655.2	21132.5	22748.0	22532.2	17840.5	9806.4	4651.6	2611.3	1411.9
71°	17062.3	17448.8	18291.4	21083.8	22842.0	22561.8	17018.8	8213.5	3412.1	1821.0	1018.4
72.5°	14539.8	14743.5	16564.4	19842.5	22098.7	21499.8	14935.0	5757.1	2184.8	1114.2	584.9
75°	8008.0	8509.4	11092.9	15566.9	17675.1	17149.4	9733.2	2734.9	1089.8	609.3	242.0
77.5°	3812.5	3715.0	5412.4	9258.0	11984.2	11956.3	4904.1	1215.1	635.4	412.6	121.9
80°	1089.8	1225.6	2071.6	4400.9	6653.6	6726.7	1883.6	586.7	440.4	322.1	62.7
82.5°	329.0	336.0	760.8	1946.3	3309.4	3119.7	706.8	299.4	316.8	255.9	36.6
85°	57.4	71.4	224.6	685.9	1262.1	957.5	177.6	142.8	208.9	168.9	20.9
87.5°	3.5	5.2	74.9	78.3	111.4	64.4	31.3	20.9	45.3	45.3	12.2
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°	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1
2.5°	3659.3	3669.8	3662.8	3647.1	3621.0	3589.7	3547.9	3513.1	3483.5	3467.8	3487.0
5°	3682.0	3695.9	3661.1	3582.7	3464.3	3335.5	3189.3	3076.1	2987.3	2959.5	2949.0
7.5°	3716.8	3725.5	3631.5	3457.4	3206.7	2902.0	2635.7	2411.1	2237.0	2184.8	2108.2
10°	3762.0	3756.8	3579.2	3255.4	2815.0	2357.1	1944.6	1638.2	1406.6	1323.1	1316.1
12.5°	3831.7	3803.8	3513.1	2980.4	2348.4	1749.6	1239.5	969.7	823.4	774.7	764.2
15°	3918.7	3852.6	3408.6	2658.3	1798.3	1129.8	764.2	682.4	663.3	659.8	656.3
17.5°	4021.4	3917.0	3271.1	2263.1	1263.9	732.9	638.9	637.2	638.9	635.4	633.7
20°	4160.7	3984.9	3107.5	1794.8	835.6	618.0	609.3	609.3	611.0	609.3	609.3
22.5°	4308.7	4064.9	2905.5	1370.1	630.2	586.7	584.9	588.4	591.9	590.2	590.2
25°	4491.5	4169.4	2639.2	938.3	564.0	560.6	562.3	569.3	576.2	578.0	576.2
27.5°	4756.1	4298.2	2353.7	645.9	517.0	520.5	537.9	555.3	565.8	567.5	567.5
30°	5053.8	4441.0	1981.1	524.0	478.7	478.7	499.6	532.7	555.3	558.8	560.6
32.5°	5436.8	4606.4	1568.5	471.8	442.2	438.7	457.9	497.9	539.7	551.9	551.9
35°	5910.3	4801.3	1166.4	438.7	416.1	407.4	417.8	450.9	504.9	539.7	543.2
37.5°	6465.6	4985.9	853.0	409.1	391.7	379.5	386.5	412.6	456.1	508.3	522.3
40°	6979.2	5149.5	637.2	384.7	367.3	358.6	363.8	376.0	412.6	461.3	470.0
42.5°	7539.7	5276.6	506.6	358.6	343.0	339.5	339.5	344.7	369.1	396.9	398.7
45°	8098.6	5321.9	424.8	327.3	316.8	320.3	318.6	315.1	325.5	322.1	322.1
47.5°	8497.2	5267.9	351.7	297.7	297.7	302.9	294.2	282.0	276.8	255.9	257.6
50°	8770.5	5071.2	289.0	262.9	276.8	283.8	266.4	247.2	228.1	205.4	200.2
52.5°	8883.7	4721.3	236.8	217.6	245.5	254.2	233.3	210.6	181.1	161.9	156.7
55°	8810.6	4289.5	196.7	177.6	207.2	217.6	196.7	170.6	137.5	116.6	113.2
57.5°	8488.5	3774.2	167.1	141.0	165.4	172.3	158.4	130.6	97.5	76.6	76.6
60°	7931.4	3241.5	135.8	111.4	123.6	134.0	120.1	94.0	66.2	47.0	43.5
62.5°	6801.6	2632.2	109.7	87.0	87.0	95.7	83.6	67.9	41.8	24.4	22.6
65°	4911.0	1805.3	87.0	64.4	62.7	62.7	52.2	45.3	24.4	10.4	7.0
67.5°	2668.8	1018.4	69.6	48.7	43.5	41.8	33.1	26.1	10.4	1.7	0.0
70°	1049.7	391.7	54.0	33.1	27.9	26.1	17.4	12.2	7.0	0.0	0.0
71°	712.0	269.8	47.0	27.9	22.6	19.1	13.9	10.4	5.2	0.0	0.0
72.5°	407.4	167.1	36.6	20.9	17.4	13.9	10.4	7.0	5.2	0.0	0.0
75°	177.6	85.3	22.6	15.7	12.2	8.7	7.0	5.2	1.7	0.0	0.0
77.5°	90.5	47.0	15.7	12.2	7.0	5.2	3.5	1.7	0.0	0.0	0.0
80°	50.5	24.4	10.4	7.0	5.2	3.5	1.7	1.7	0.0	0.0	0.0
82.5°	27.9	13.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.5	0.0	0.0	0.0	0.0	1.7	1.7	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)