

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: STREETWORKS

Report Number: P966594

Luminaire Tested: **NVN-SB4C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19576.5 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

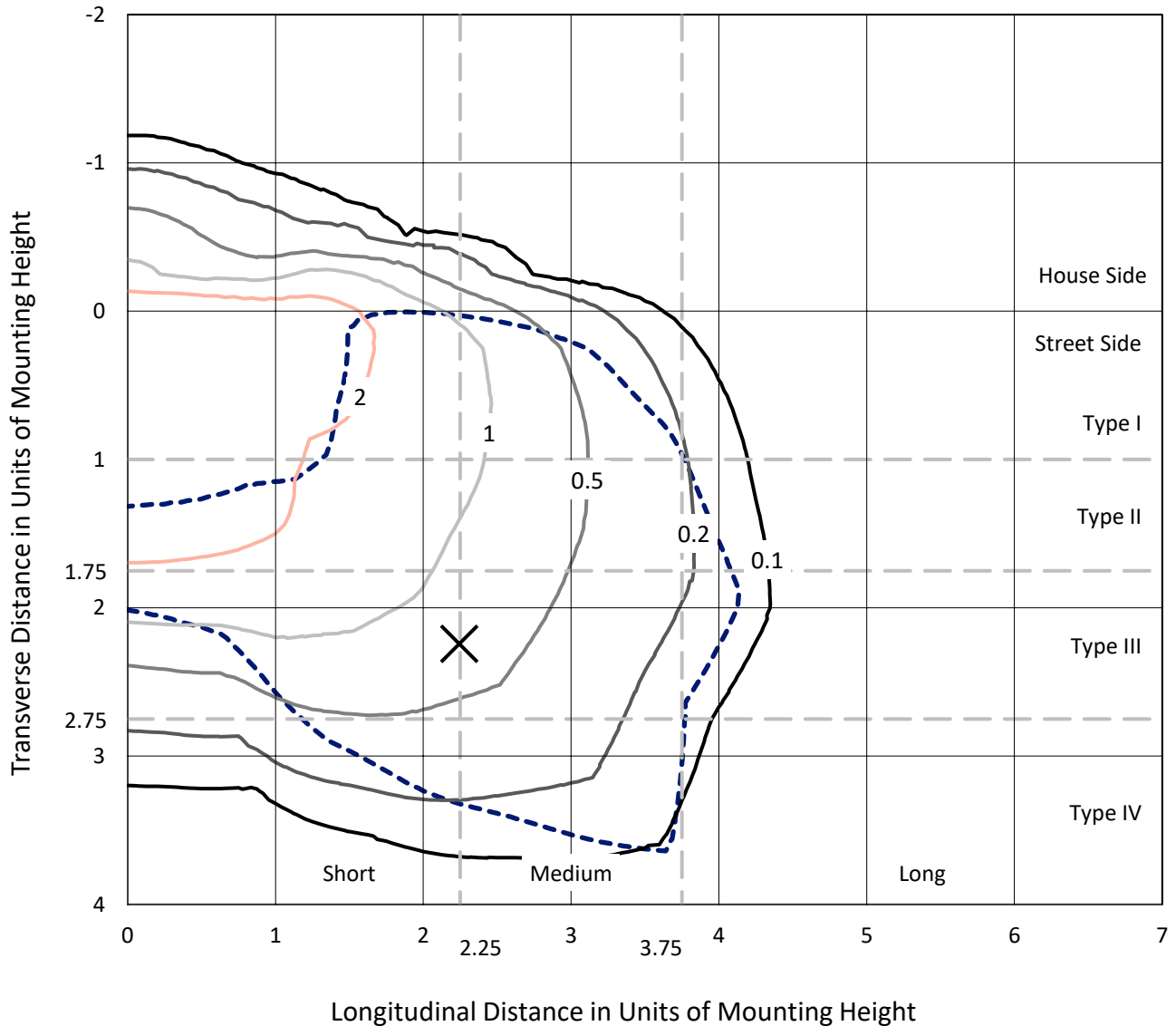
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

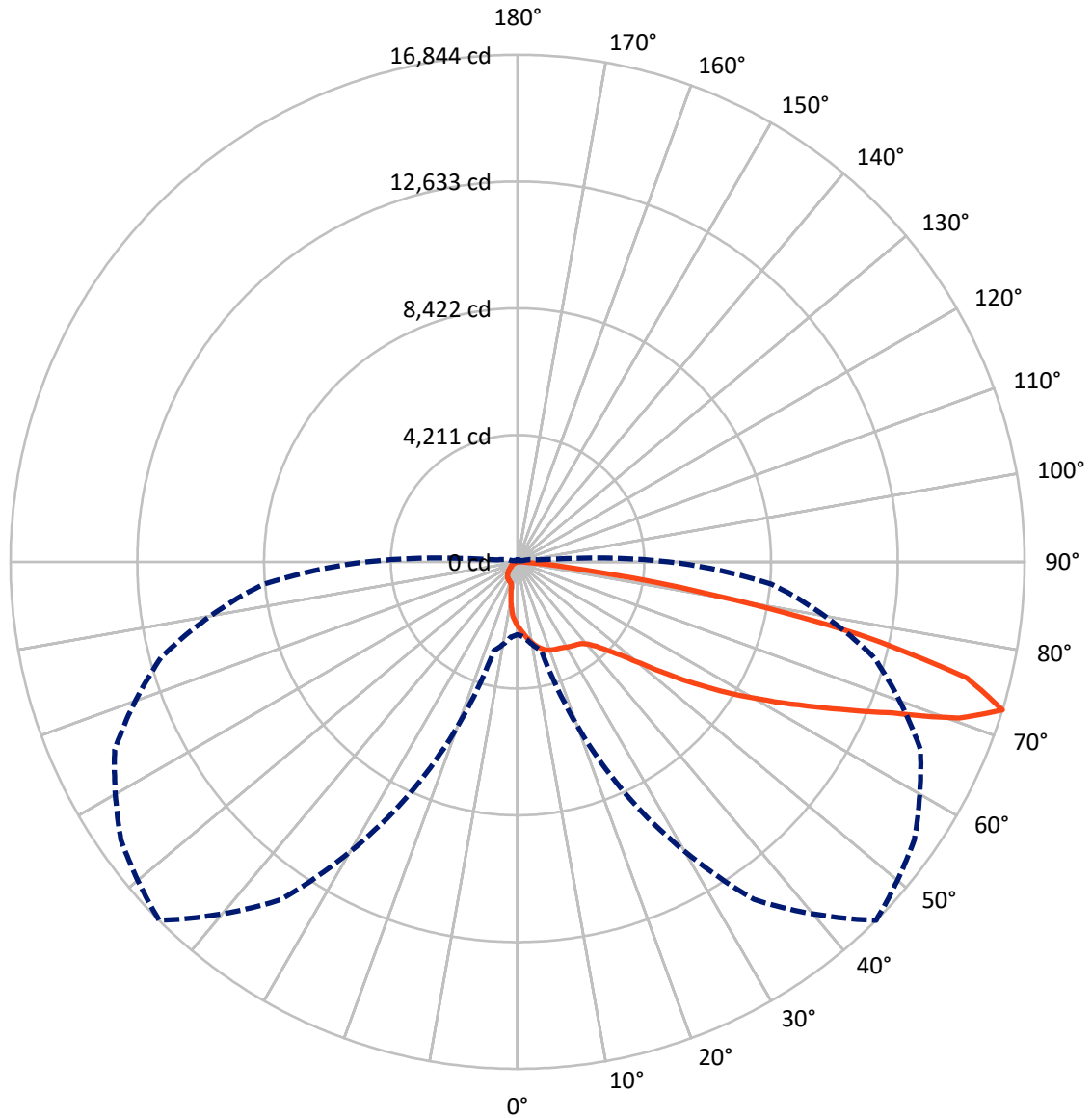
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.9	0.0	2056.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17519.5	0.0	17519.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	19576.5	0.0	19576.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	1.0
10°-20°	590.6	3.0
20°-30°	969.8	5.0
30°-40°	1375.4	7.0
40°-50°	2273.4	11.6
50°-60°	4083.9	20.9
60°-70°	5670.7	29.0
70°-80°	4113.3	21.0
80°-90°	297.4	1.5
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°	19576.5	100.0
0°-180°	19576.5	100.0

Coefficient of Utilization



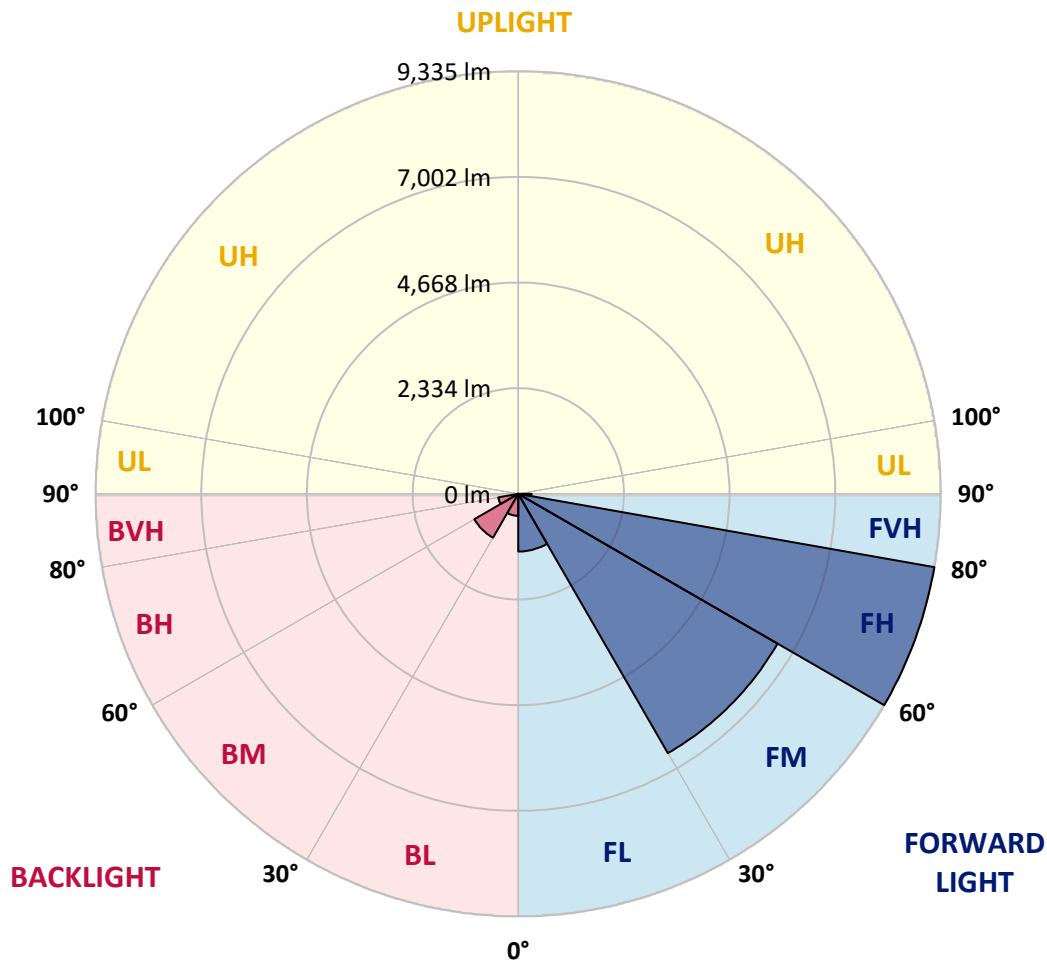
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.2	6.5			
FM (30°-60°)	6614.0	33.8			
FH (60°-80°)	9335.5	47.7			G4/12000
FVH (80°-90°)	294.9	1.5			G3/500
BL (0°-30°)	487.2	2.5	B1/500		
BM (30°-60°)	1118.7	5.7	B2/2500		
BH (60°-80°)	448.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6
2.5°	2342.4	2346.4	2343.8	2327.7	2301.0	2286.3	2278.3	2251.5	2234.2	2203.4	2171.4
5°	2557.6	2573.6	2564.2	2532.2	2481.4	2445.3	2434.6	2379.8	2330.3	2272.9	2206.1
7.5°	2786.1	2794.0	2776.7	2735.2	2667.2	2605.7	2596.3	2520.2	2441.2	2353.1	2262.3
10°	2983.8	2993.1	2966.5	2906.3	2828.8	2752.6	2739.3	2655.1	2561.6	2453.3	2337.1
12.5°	3149.5	3158.8	3124.1	3051.9	2966.5	2887.6	2874.2	2786.1	2683.1	2562.9	2418.6
15°	3275.1	3292.5	3245.7	3168.2	3076.0	2997.2	2990.4	2903.6	2803.4	2669.8	2516.1
17.5°	3348.6	3366.0	3321.8	3228.3	3149.5	3082.7	3074.7	3002.5	2909.0	2780.7	2611.0
20°	3360.6	3376.7	3329.9	3248.3	3182.9	3129.4	3125.4	3073.4	3005.2	2882.2	2713.9
22.5°	3324.5	3344.6	3301.8	3236.3	3190.9	3162.8	3157.5	3128.1	3089.4	2985.1	2810.0
25°	3287.1	3303.2	3271.1	3213.6	3189.6	3186.9	3190.9	3185.6	3177.5	3089.4	2922.4
27.5°	3284.4	3301.8	3265.8	3210.9	3197.6	3225.7	3229.7	3255.1	3261.8	3184.3	3030.5
30°	3307.2	3319.2	3284.4	3227.0	3220.3	3284.4	3285.7	3331.2	3341.9	3264.4	3137.4
32.5°	3356.6	3370.0	3335.2	3251.0	3241.7	3331.2	3335.2	3395.3	3412.7	3349.9	3249.7
35°	3472.9	3488.9	3448.8	3317.8	3284.4	3375.3	3387.3	3458.1	3492.9	3440.8	3366.0
37.5°	3762.8	3716.0	3661.3	3452.8	3382.0	3444.8	3464.8	3547.7	3609.1	3549.1	3504.9
40°	4483.0	4336.1	4165.0	3682.6	3553.1	3593.1	3609.1	3691.9	3776.2	3717.4	3696.0
42.5°	5564.0	5390.4	5115.1	4211.8	3811.0	3830.9	3843.0	3915.2	4034.1	3987.4	3992.7
45°	6527.5	6464.7	6184.0	5115.1	4293.3	4194.4	4209.2	4246.6	4421.5	4404.2	4439.0
47.5°	7267.8	7231.7	7015.2	6151.9	5108.4	4639.4	4680.8	4698.2	4950.8	5012.1	5105.7
50°	7836.9	7823.6	7629.9	7073.9	6173.4	5295.5	5310.2	5272.7	5650.9	5803.2	5981.0
52.5°	8374.1	8419.6	8276.6	7930.5	7310.5	6154.6	6151.9	5975.6	6486.1	6715.9	7019.2
55°	8859.2	8875.3	8889.9	8804.4	8454.3	7132.8	7107.4	6818.8	7454.8	7692.6	8021.3
57.5°	9314.8	9321.6	9452.4	9627.5	9644.8	8183.1	8136.2	7790.2	8513.1	8682.8	8884.6
60°	9620.9	9651.6	9928.2	10414.5	10627.0	9266.7	9241.3	8888.6	9590.1	9668.9	9631.5
62.5°	9179.9	9367.0	10064.5	11029.2	11554.3	10468.0	10456.0	10124.6	10723.2	10659.1	10338.4
65°	7430.7	7747.5	8974.1	11444.7	12464.3	11809.5	11827.0	11474.2	11887.0	11678.6	10913.0
67.5°	5197.9	5532.0	6983.1	11478.2	13481.2	13385.0	13485.2	12932.0	13123.1	12655.4	11049.3
70°	3594.5	3766.9	4711.5	10759.3	14273.5	15555.0	15552.3	14722.6	14352.5	13100.3	10354.4
72.5°	2417.3	2506.7	3059.9	8535.8	13691.0	16844.4	16766.9	16090.9	14766.7	12251.8	8459.6
75°	1019.6	1085.1	1416.4	4797.1	10831.5	15410.7	15201.0	14220.1	13120.4	9647.6	5278.1
77.5°	323.4	351.5	558.5	1717.1	5966.2	11583.7	11361.9	8880.6	8793.7	4839.8	1929.6
80°	153.6	179.1	314.1	689.5	2347.8	6300.3	6269.6	4028.8	3782.9	1306.9	387.6
82.5°	66.8	78.8	173.7	368.8	1050.3	2247.5	2292.9	1370.9	1134.5	495.7	118.9
85°	21.4	28.1	80.2	169.7	443.6	558.5	551.9	326.1	456.9	269.9	41.4
87.5°	0.0	0.0	26.8	38.7	45.4	32.1	36.1	28.1	126.9	74.8	14.7
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°	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6
2.5°	2155.4	2133.9	2096.5	2061.8	2031.0	2000.3	1981.6	1954.9	1952.2	1952.2	1958.9
5°	2170.0	2135.3	2068.4	1997.6	1916.1	1838.6	1761.2	1686.3	1662.2	1644.9	1652.9
7.5°	2212.8	2158.0	2052.5	1917.5	1762.5	1592.7	1473.8	1345.6	1296.1	1269.5	1273.5
10°	2274.3	2199.4	2039.0	1802.6	1551.3	1320.2	1150.5	1011.6	958.1	935.3	935.3
12.5°	2342.4	2250.2	2015.0	1659.6	1320.2	1043.6	877.9	813.7	805.8	805.8	805.8
15°	2423.9	2311.7	1973.6	1491.3	1078.3	825.7	767.0	769.7	777.7	783.0	783.0
17.5°	2508.1	2377.2	1908.1	1302.8	864.6	742.9	744.3	748.2	755.0	760.3	760.3
20°	2599.0	2442.6	1821.3	1102.4	741.6	718.9	722.9	726.9	732.3	734.9	736.3
22.5°	2696.5	2504.1	1718.4	906.0	700.2	698.8	700.2	704.2	710.8	710.8	713.5
25°	2800.7	2572.2	1600.8	763.0	678.8	678.8	681.5	684.2	689.5	689.5	690.8
27.5°	2907.6	2635.1	1476.5	688.2	660.1	658.8	658.8	662.8	665.4	666.8	668.1
30°	3025.2	2708.6	1352.3	672.1	645.4	638.7	634.7	637.3	640.0	641.3	644.1
32.5°	3145.5	2779.4	1241.4	678.8	630.7	618.7	605.3	602.6	602.6	608.0	612.0
35°	3279.1	2856.9	1155.8	701.5	622.7	589.3	567.8	555.9	557.2	565.2	569.2
37.5°	3439.5	2950.4	1093.1	721.6	617.4	555.9	521.1	506.5	497.1	506.5	503.8
40°	3649.2	3088.0	1047.7	737.6	610.7	517.1	470.4	446.3	429.0	434.3	431.6
42.5°	3957.9	3304.5	1030.2	738.9	595.9	471.7	418.2	386.2	360.8	362.1	356.8
45°	4390.8	3646.5	1119.7	721.6	563.9	422.2	363.5	320.7	304.6	300.6	295.3
47.5°	4984.2	4145.0	1326.9	685.5	517.1	374.1	310.0	273.9	261.9	255.2	251.2
50°	5779.2	4785.0	1556.7	645.4	470.4	328.7	265.9	243.2	235.1	228.5	227.1
52.5°	6701.1	5434.4	1745.1	605.3	423.6	288.6	237.8	224.5	217.8	212.5	211.2
55°	7547.0	5882.1	1734.4	562.5	378.1	256.6	217.8	209.8	201.7	196.4	193.7
57.5°	8073.5	5944.9	1429.8	515.8	326.1	231.1	199.1	193.7	184.4	177.7	176.4
60°	8315.3	5586.8	1002.1	454.3	273.9	207.2	179.1	176.4	164.3	155.0	152.3
62.5°	8359.4	4921.3	668.1	378.1	228.5	184.4	159.0	155.0	139.0	122.9	114.9
65°	8180.4	3969.9	462.4	295.3	195.1	160.3	136.3	128.2	110.9	94.9	89.5
67.5°	7613.8	2787.4	322.1	212.5	165.7	126.9	108.2	105.6	92.2	78.8	74.8
70°	6575.6	1588.7	215.1	159.0	131.0	86.8	85.5	88.1	74.8	64.2	58.8
72.5°	5041.6	726.9	133.7	116.2	89.5	58.8	68.2	69.5	57.5	48.1	42.7
75°	2967.8	311.3	84.2	74.8	45.4	38.7	49.4	50.7	38.7	30.7	26.8
77.5°	1010.1	117.6	53.4	44.1	22.8	21.4	32.1	32.1	21.4	12.0	9.3
80°	229.8	44.1	26.8	17.3	10.7	9.3	10.7	9.3	5.3	1.3	0.0
82.5°	65.5	17.3	10.7	6.7	4.0	4.0	1.3	0.0	0.0	0.0	0.0
85°	18.8	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	1.3	0.0	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)