

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: P884490

Luminaire Tested: **NVN-SB5B-827-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 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: 17578 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

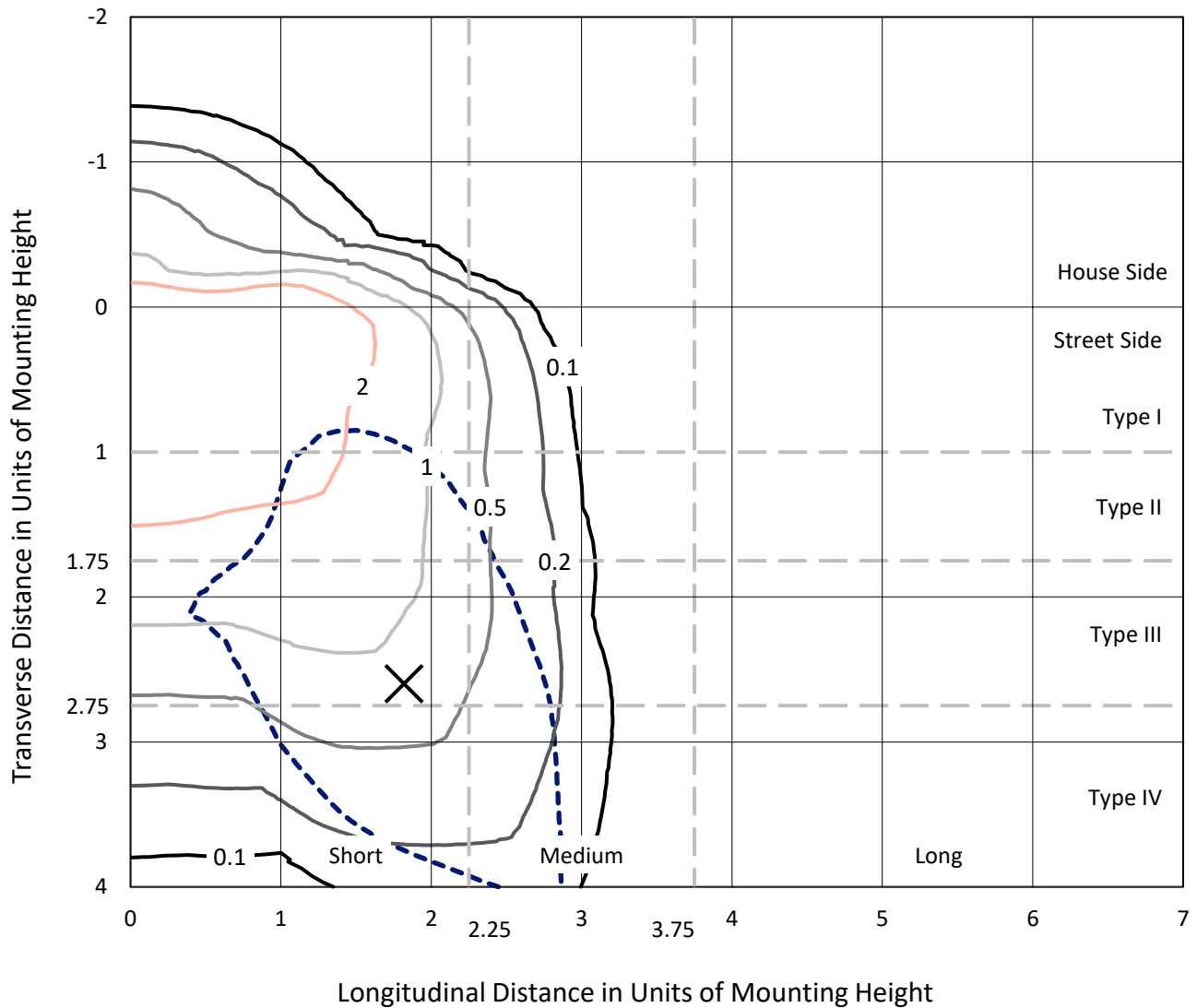
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

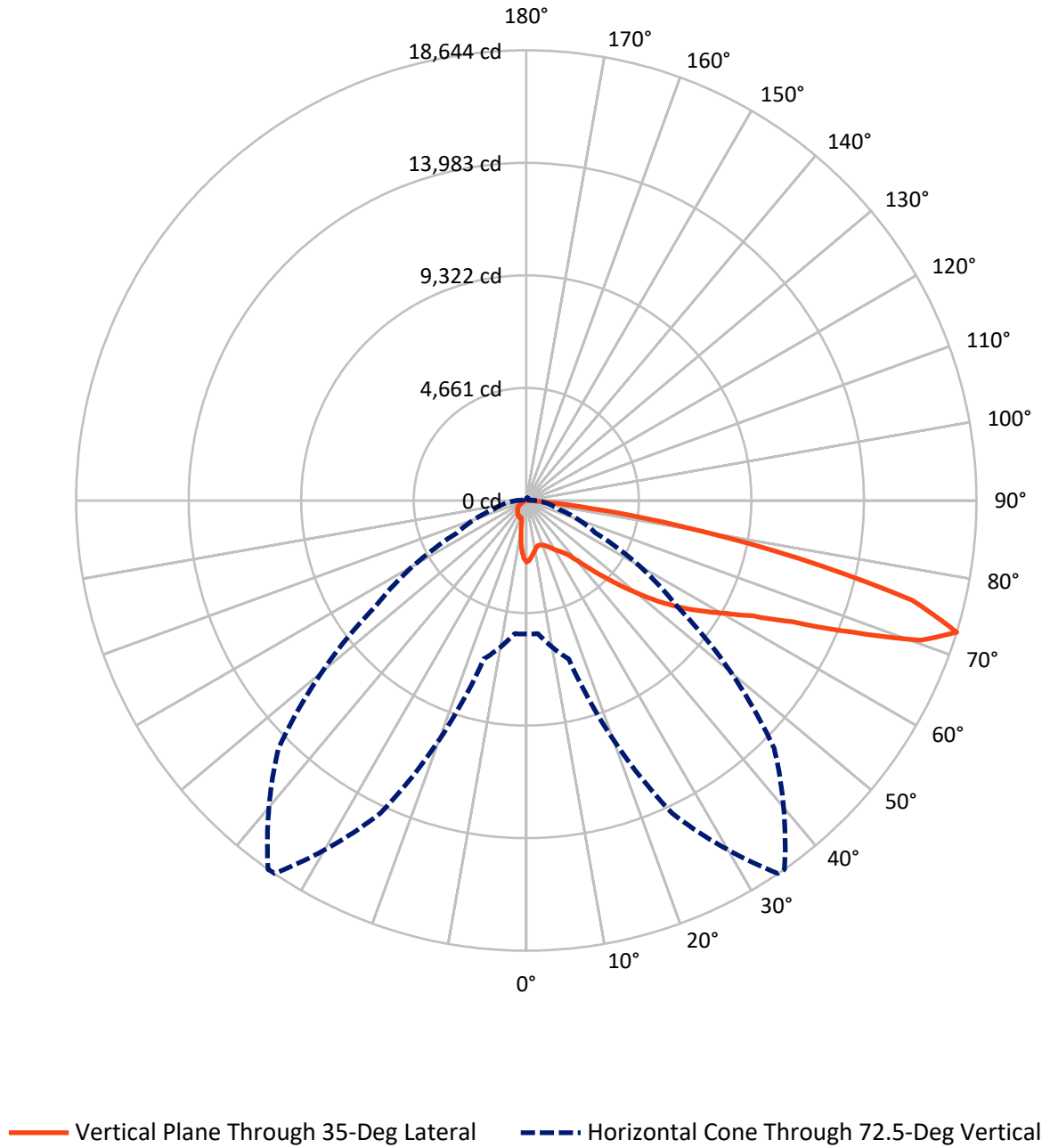
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.3	0.0	1978.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15599.7	0.0	15599.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	17578.0	0.0	17578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.2
10°-20°	489.7	2.8
20°-30°	795.6	4.5
30°-40°	1327.4	7.6
40°-50°	2511.5	14.3
50°-60°	3990.8	22.7
60°-70°	4936.9	28.1
70°-80°	3068.8	17.5
80°-90°	248.0	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°	17578.0	100.0
0°-180°	17578.0	100.0

Coefficient of Utilization



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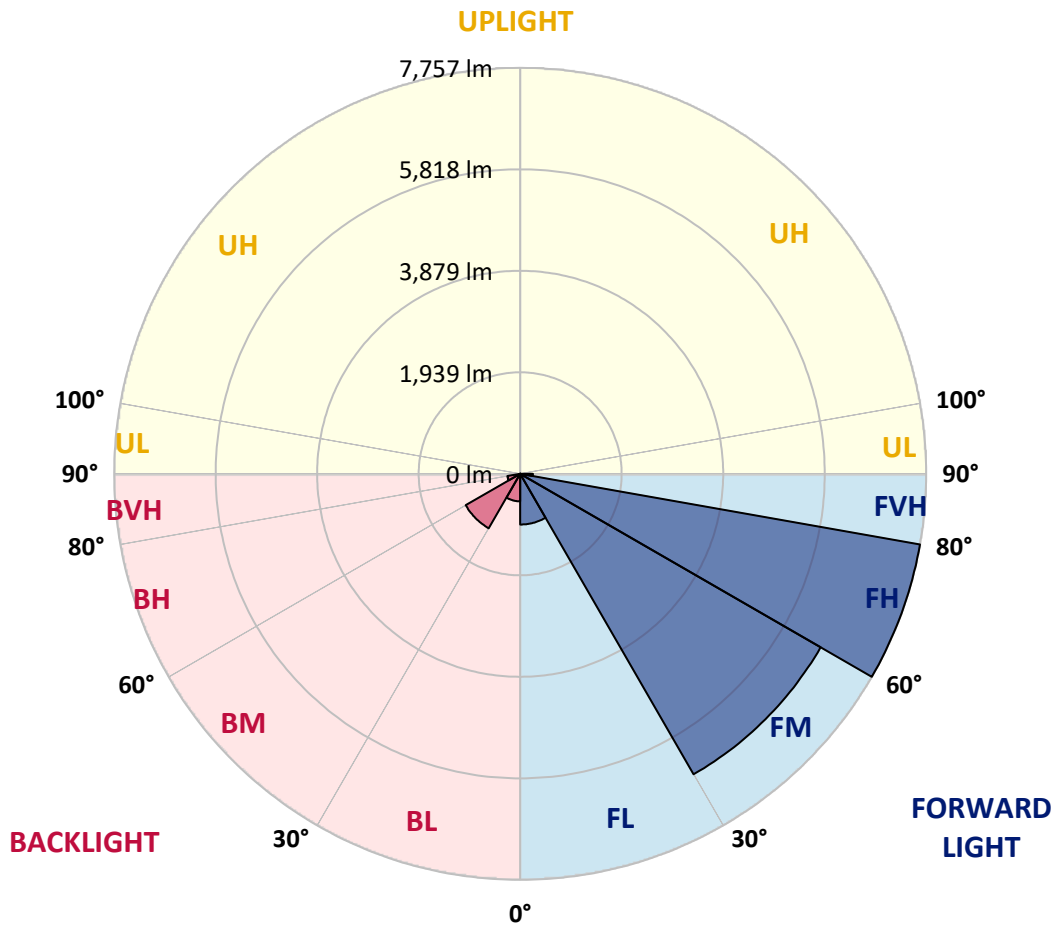
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.0	5.5			
FM (30°-60°)	6628.7	37.7			
FH (60°-80°)	7757.4	44.1			G4/12000
FVH (80°-90°)	244.6	1.4			G3/500
BL (0°-30°)	525.7	3.0	B2/1000		
BM (30°-60°)	1201.0	6.8	B2/2500		
BH (60°-80°)	248.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.4	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°	34°	35°	45°	55°	65°	75°	85°
0°	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6
2.5°	2434.3	2454.9	2458.8	2465.2	2465.2	2472.9	2485.8	2503.8	2533.5	2548.9	2559.2
5°	2243.7	2259.1	2278.5	2293.9	2323.5	2327.4	2377.6	2426.6	2494.8	2546.4	2582.4
7.5°	2051.8	2069.8	2095.6	2132.9	2171.5	2183.1	2259.1	2341.6	2449.8	2546.4	2606.9
10°	1916.5	1917.8	1941.0	1978.4	2040.2	2054.3	2147.1	2264.3	2399.5	2530.9	2630.1
12.5°	1840.5	1849.6	1859.9	1888.2	1947.4	1956.5	2055.6	2193.4	2349.3	2521.9	2657.1
15°	1840.5	1847.0	1853.4	1867.6	1915.2	1923.0	2010.6	2148.4	2323.5	2525.7	2700.9
17.5°	1859.9	1870.2	1865.0	1881.8	1932.0	1937.1	2014.4	2135.5	2322.2	2550.2	2767.9
20°	1906.2	1914.0	1903.6	1914.0	1964.2	1974.5	2054.3	2160.0	2344.1	2592.7	2851.6
22.5°	1979.6	1983.5	1959.0	1966.8	2018.3	2031.2	2123.9	2229.5	2396.9	2661.0	2963.7
25°	2072.4	2080.1	2042.8	2051.8	2100.7	2116.2	2223.1	2333.8	2480.7	2755.0	3106.6
27.5°	2179.3	2183.1	2150.9	2149.7	2212.8	2234.7	2342.9	2462.6	2592.7	2873.5	3286.9
30°	2301.6	2313.2	2282.3	2277.2	2357.0	2375.1	2482.0	2621.1	2757.6	3051.2	3543.3
32.5°	2398.2	2407.3	2389.2	2402.1	2483.2	2497.4	2650.7	2845.2	3016.5	3303.7	3892.3
35°	2537.3	2542.5	2501.3	2524.5	2617.2	2653.3	2881.2	3159.4	3342.3	3620.5	4348.2
37.5°	3040.9	3040.9	2865.8	2751.1	2840.0	2872.2	3196.8	3554.8	3744.2	4045.6	4922.7
40°	3737.7	3726.2	3469.8	3235.4	3223.8	3286.9	3646.3	4053.3	4263.2	4555.6	5569.3
42.5°	4480.9	4462.9	4113.8	3882.0	3843.4	3865.3	4165.4	4667.7	4881.5	5177.7	6264.8
45°	5140.4	5135.2	4815.8	4504.1	4434.5	4504.1	4813.2	5386.4	5539.6	5851.3	6959.0
47.5°	5692.9	5692.9	5459.8	5256.3	5220.2	5261.4	5690.3	6183.6	6169.5	6568.7	7635.2
50°	6329.2	6324.0	6102.5	6014.9	6052.3	6110.2	6700.1	7023.4	6821.2	7273.3	8239.3
52.5°	6774.8	6805.7	6729.7	6715.6	6906.2	7006.7	7725.4	7845.1	7404.6	7941.7	8691.3
55°	7127.7	7163.8	7251.4	7350.6	7717.6	7849.0	8718.4	8624.4	7892.8	8521.3	8951.5
57.5°	7627.5	7575.9	7711.2	7907.0	8500.7	8659.1	9680.5	9359.8	8285.6	8991.4	8979.9
60°	8234.1	8241.8	8265.0	8512.3	9282.5	9486.0	10628.5	10055.3	8538.1	9280.0	8665.6
62.5°	8963.1	8974.7	9022.4	9402.3	10332.2	10524.2	11638.3	10624.6	8654.0	9198.8	7854.2
65°	8912.9	8961.8	9493.8	10793.3	11928.1	12117.4	12816.8	11023.9	8478.8	8456.9	6394.9
67.5°	8119.5	8199.3	9089.3	12454.9	14334.0	14545.3	14241.3	11102.5	7722.8	6576.5	4171.8
70°	7078.8	7107.1	8177.4	13948.9	17119.9	17333.8	15516.4	10238.2	5860.3	3668.2	1868.9
72.5°	5528.0	5534.5	6790.3	14295.4	18632.0	18643.6	14515.6	7600.4	3151.7	1409.1	649.1
75°	3949.0	3910.3	4547.9	11593.2	16392.2	16523.6	10882.2	3565.2	1204.3	665.9	323.3
77.5°	2117.5	2160.0	2573.4	6875.3	11324.0	11548.1	5937.6	1027.8	613.1	453.4	213.8
80°	654.3	690.4	1054.9	3147.8	6414.2	6549.4	2201.2	457.2	427.6	323.3	140.4
82.5°	206.1	213.8	492.0	1322.8	2662.3	2724.1	637.6	258.9	292.4	213.8	82.4
85°	59.2	60.5	219.0	493.3	658.2	671.0	179.0	100.5	167.4	132.7	42.5
87.5°	6.4	20.6	82.4	82.4	58.0	56.7	19.3	21.9	47.7	16.7	7.7
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°	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6	2547.6
2.5°	2552.8	2554.1	2537.3	2509.0	2478.1	2452.3	2420.1	2394.4	2376.3	2371.2	2380.2
5°	2570.8	2561.8	2514.2	2427.9	2324.8	2235.9	2136.8	2058.2	2006.7	1984.8	1992.5
7.5°	2597.9	2572.1	2467.8	2297.8	2100.7	1925.5	1747.8	1610.0	1522.4	1478.6	1485.1
10°	2621.1	2569.5	2390.5	2109.7	1808.3	1543.0	1303.4	1137.3	1044.6	1000.8	1002.1
12.5°	2643.0	2568.2	2290.0	1886.9	1478.6	1154.0	931.2	848.8	823.0	814.0	811.4
15°	2684.2	2572.1	2163.8	1631.9	1150.2	872.0	790.8	789.5	794.7	792.1	790.8
17.5°	2740.8	2576.0	2020.9	1361.4	887.4	768.9	765.1	776.7	784.4	780.5	779.2
20°	2814.3	2591.4	1868.9	1093.5	762.5	743.2	752.2	762.5	768.9	762.5	761.2
22.5°	2917.3	2618.5	1702.7	878.4	722.6	727.7	735.4	747.0	753.5	744.5	743.2
25°	3043.5	2661.0	1539.1	763.8	703.2	709.7	721.3	734.2	741.9	732.9	731.6
27.5°	3207.1	2729.2	1388.5	738.0	683.9	687.8	704.5	723.8	734.2	722.6	722.6
30°	3444.1	2841.3	1258.4	749.6	672.3	663.3	686.5	713.5	725.1	714.8	713.5
32.5°	3758.4	2999.7	1178.5	767.6	667.2	635.0	656.9	691.6	711.0	704.5	704.5
35°	4170.5	3240.6	1147.6	788.2	663.3	605.4	620.8	658.2	691.6	698.1	698.1
37.5°	4670.2	3575.5	1156.6	797.3	651.7	580.9	588.6	620.8	664.6	685.2	690.4
40°	5238.2	3965.7	1208.1	788.2	638.8	560.3	561.6	586.0	624.7	655.6	665.9
42.5°	5824.3	4421.7	1303.4	754.8	627.3	542.2	538.4	555.1	580.9	602.8	611.8
45°	6382.0	4890.5	1397.5	708.4	613.1	524.2	515.2	521.6	526.8	535.8	541.0
47.5°	6868.8	5220.2	1370.4	665.9	593.8	503.6	488.1	485.6	470.1	468.8	467.5
50°	7205.0	5292.3	1217.1	623.4	565.4	480.4	455.9	440.5	413.4	400.6	401.9
52.5°	7311.9	5007.7	994.3	580.9	519.1	449.5	414.7	390.3	356.8	345.2	343.9
55°	7170.2	4450.0	794.7	529.4	454.7	408.3	369.7	337.5	310.4	296.2	296.2
57.5°	6823.8	3740.3	628.5	468.8	386.4	361.9	323.3	291.1	267.9	253.7	251.2
60°	6249.3	2970.1	497.2	396.7	329.7	311.7	271.8	251.2	230.5	213.8	209.9
62.5°	5377.4	2120.0	390.3	314.3	275.6	255.0	231.8	216.4	191.9	168.7	164.9
65°	4196.3	1297.0	301.4	230.5	221.5	211.2	197.1	182.9	153.3	130.1	126.2
67.5°	2646.8	614.4	215.1	173.9	175.2	170.0	163.6	152.0	130.1	109.5	106.9
70°	1165.6	297.5	141.7	132.7	130.1	130.1	135.2	131.4	110.8	91.4	87.6
72.5°	396.7	159.7	105.6	100.5	94.0	92.7	113.3	109.5	88.9	70.8	67.0
75°	207.4	106.9	77.3	72.1	56.7	68.3	90.2	85.0	63.1	46.4	42.5
77.5°	135.2	76.0	52.8	46.4	32.2	45.1	67.0	59.2	37.4	23.2	20.6
80°	85.0	50.2	30.9	21.9	15.5	24.5	36.1	25.8	14.2	5.2	3.9
82.5°	45.1	25.8	11.6	7.7	6.4	7.7	9.0	6.4	2.6	0.0	0.0
85°	18.0	9.0	3.9	2.6	1.3	0.0	2.6	1.3	0.0	0.0	0.0
87.5°	6.4	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)