

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: LUMARK

Report Number: P885450

Luminaire Tested: **NAV-SB6D-727-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885450
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: LUMARK
Catalog Number: NAV-SB6D-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA 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: 42381 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

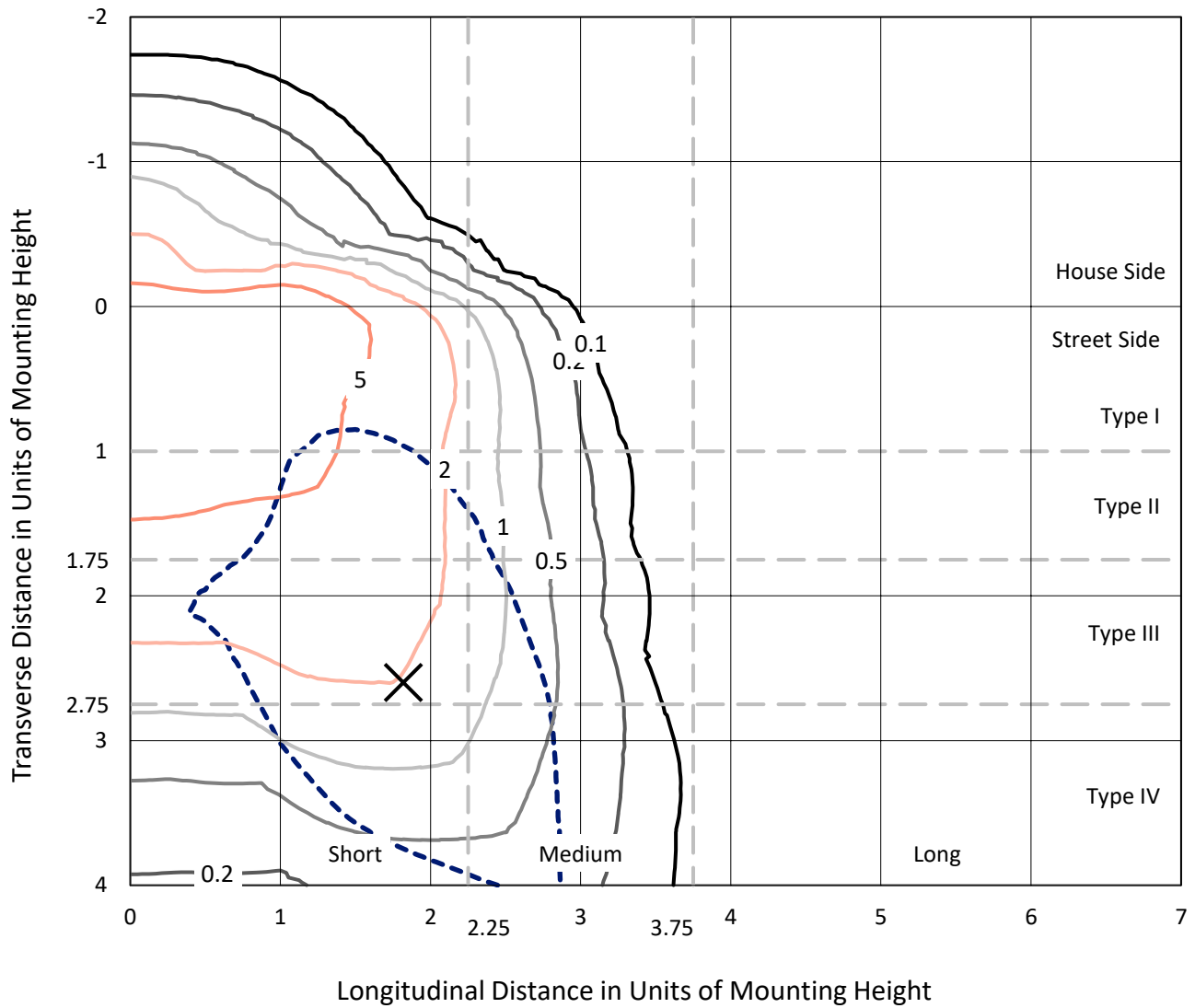
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

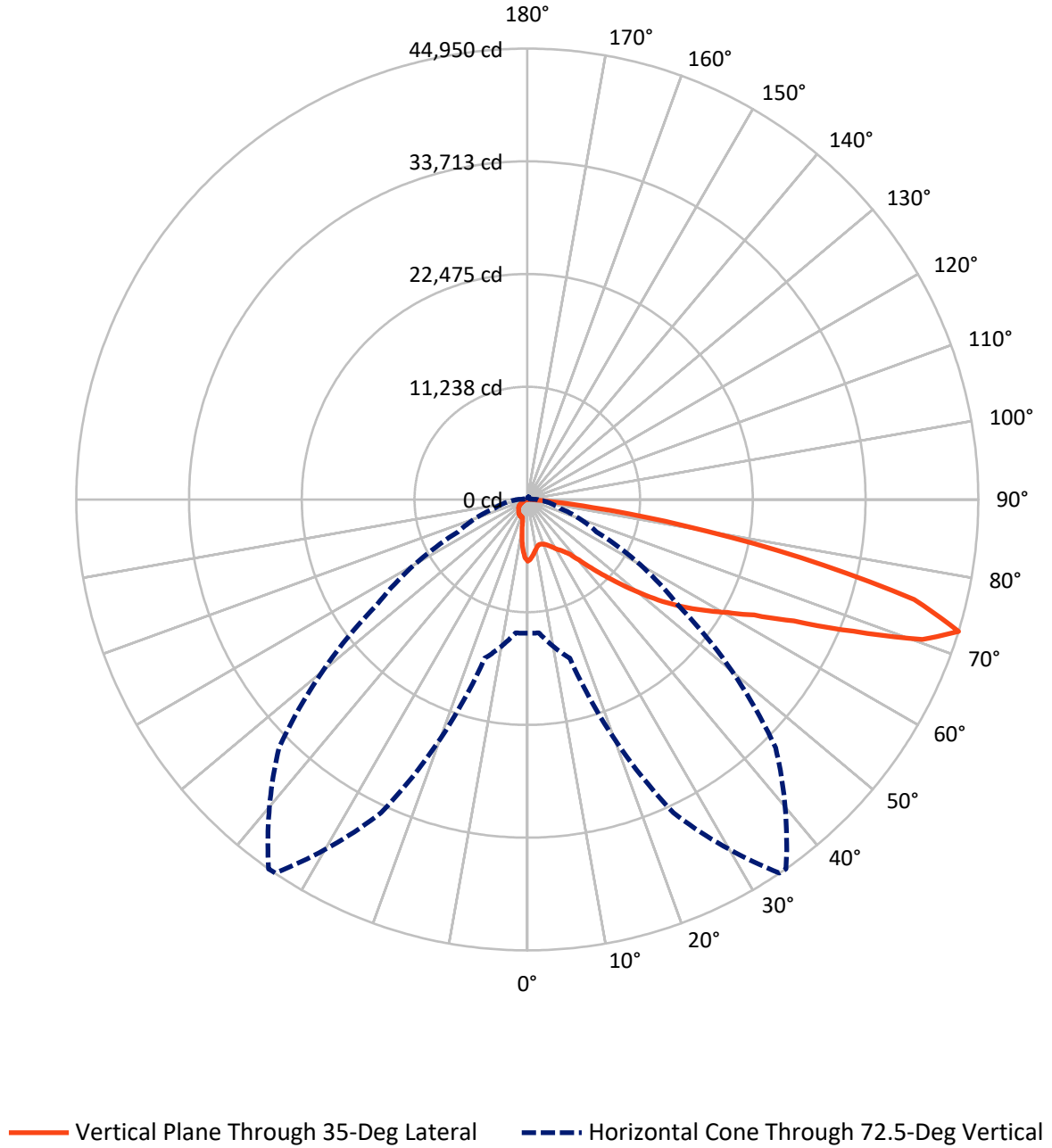
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	4769.8	0.0	4769.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	37611.2	0.0	37611.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	42381.0	0.0	42381.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	1.2
10°-20°	1180.8	2.8
20°-30°	1918.2	4.5
30°-40°	3200.4	7.6
40°-50°	6055.3	14.3
50°-60°	9621.8	22.7
60°-70°	11902.9	28.1
70°-80°	7398.9	17.5
80°-90°	597.9	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°	42381.0	100.0
0°-180°	42381.0	100.0



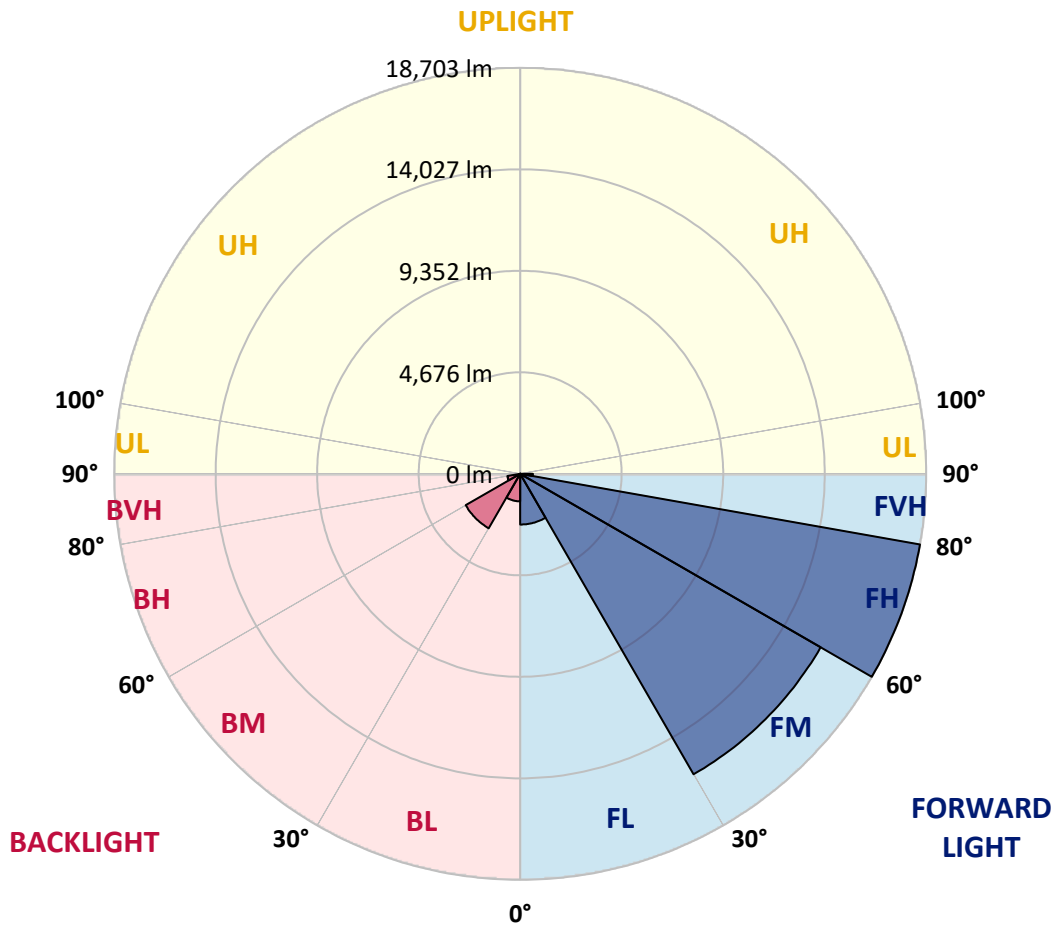
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.3	5.5			
FM (30°-60°)	15981.9	37.7			
FH (60°-80°)	18703.3	44.1			G5
FVH (80°-90°)	589.8	1.4			G4/750
BL (0°-30°)	1267.4	3.0	B3/2500		
BM (30°-60°)	2895.7	6.8	B3/5000		
BH (60°-80°)	598.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4
2.5°	5869.2	5918.8	5928.2	5943.7	5943.7	5962.3	5993.4	6036.8	6108.3	6145.5	6170.4
5°	5409.6	5446.8	5493.4	5530.7	5602.1	5611.4	5732.5	5850.5	6015.1	6139.3	6226.3
7.5°	4946.9	4990.3	5052.4	5142.5	5235.7	5263.6	5446.8	5645.6	5906.4	6139.3	6285.3
10°	4620.8	4623.9	4679.8	4769.9	4918.9	4953.1	5176.7	5459.2	5785.3	6102.1	6341.2
12.5°	4437.6	4459.3	4484.2	4552.5	4695.3	4717.1	4956.2	5288.5	5664.2	6080.3	6406.4
15°	4437.6	4453.1	4468.6	4502.8	4617.7	4636.3	4847.5	5179.8	5602.1	6089.6	6512.0
17.5°	4484.2	4509.0	4496.6	4536.9	4658.1	4670.5	4856.8	5148.7	5599.0	6148.6	6673.4
20°	4596.0	4614.6	4589.7	4614.6	4735.7	4760.5	4953.1	5207.7	5651.8	6251.1	6875.3
22.5°	4773.0	4782.3	4723.3	4741.9	4866.1	4897.2	5120.8	5375.4	5779.1	6415.7	7145.5
25°	4996.5	5015.2	4925.1	4946.9	5064.9	5102.1	5359.9	5626.9	5980.9	6642.4	7490.2
27.5°	5254.3	5263.6	5186.0	5182.9	5335.0	5387.8	5648.7	5937.5	6251.1	6928.1	7924.9
30°	5549.3	5577.2	5502.7	5490.3	5682.8	5726.3	5984.1	6319.4	6648.6	7356.6	8542.9
32.5°	5782.2	5803.9	5760.5	5791.5	5987.2	6021.3	6390.9	6859.8	7272.8	7965.3	9384.4
35°	6117.6	6130.0	6030.6	6086.5	6310.1	6397.1	6946.7	7617.5	8058.4	8729.2	10483.7
37.5°	7331.8	7331.8	6909.5	6633.1	6847.3	6925.0	7707.5	8570.8	9027.3	9754.0	11868.7
40°	9011.8	8983.8	8365.9	7800.7	7772.7	7924.9	8791.3	9772.6	10278.8	10983.7	13427.6
42.5°	10803.6	10760.1	9918.6	9359.6	9266.4	9319.2	10042.8	11253.9	11769.4	12483.6	15104.5
45°	12393.5	12381.1	11611.0	10859.5	10691.8	10859.5	11604.8	12986.7	13356.2	14107.7	16778.3
47.5°	13725.7	13725.7	13163.7	12673.0	12586.1	12685.4	13719.5	14908.9	14874.7	15837.4	18408.7
50°	15259.8	15247.4	14713.3	14502.1	14592.1	14731.9	16154.2	16933.6	16446.1	17536.0	19865.1
52.5°	16334.3	16408.8	16225.6	16191.4	16651.0	16893.2	18626.0	18914.8	17852.8	19147.7	20955.1
55°	17185.1	17272.1	17483.3	17722.4	18607.4	18924.1	21020.3	20793.6	19029.7	20545.1	21582.3
57.5°	18390.0	18265.8	18591.9	19063.9	20495.5	20877.4	23340.0	22566.7	19976.9	21678.6	21650.7
60°	19852.6	19871.3	19927.2	20523.4	22380.4	22871.1	25625.5	24243.6	20585.5	22374.2	20892.9
62.5°	21610.3	21638.2	21753.1	22669.2	24911.3	25374.0	28060.2	25616.2	20865.0	22178.6	18936.6
65°	21489.2	21607.2	22889.7	26023.0	28758.9	29215.3	30901.6	26578.9	20442.7	20389.9	15418.2
67.5°	19576.3	19768.8	21914.6	30029.0	34559.7	35069.0	34336.1	26768.3	18619.8	15856.0	10058.3
70°	17067.1	17135.4	19716.0	33631.2	41276.6	41792.1	37410.4	24684.6	14129.4	8844.1	4505.9
72.5°	13328.3	13343.8	16371.5	34466.5	44922.3	44950.3	34997.6	18324.8	7598.8	3397.3	1565.1
75°	9521.1	9427.9	10965.1	27951.5	39522.1	39838.8	26237.3	8595.7	2903.5	1605.5	779.4
77.5°	5105.2	5207.7	6204.5	16576.5	27302.4	27842.8	14315.8	2478.1	1478.2	1093.1	515.5
80°	1577.5	1664.5	2543.3	7589.5	15464.8	15790.8	5307.1	1102.4	1031.0	779.4	338.5
82.5°	496.9	515.5	1186.3	3189.2	6418.8	6567.9	1537.2	624.2	704.9	515.5	198.7
85°	142.8	146.0	527.9	1189.4	1586.8	1617.9	431.6	242.2	403.7	319.9	102.5
87.5°	15.5	49.7	198.7	198.7	139.7	136.6	46.6	52.8	114.9	40.4	18.6
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°	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4	6142.4
2.5°	6154.8	6158.0	6117.6	6049.3	5974.7	5912.6	5835.0	5772.9	5729.4	5717.0	5738.7
5°	6198.3	6176.6	6061.7	5853.6	5605.2	5390.9	5151.8	4962.4	4838.2	4785.4	4804.0
7.5°	6263.5	6201.4	5949.9	5540.0	5064.9	4642.5	4214.0	3881.7	3670.6	3565.0	3580.5
10°	6319.4	6195.2	5763.6	5086.6	4359.9	3720.2	3142.6	2742.0	2518.5	2412.9	2416.0
12.5°	6372.2	6192.1	5521.4	4549.4	3565.0	2782.4	2245.2	2046.4	1984.3	1962.6	1956.4
15°	6471.6	6201.4	5217.0	3934.5	2773.1	2102.3	1906.7	1903.6	1916.0	1909.8	1906.7
17.5°	6608.2	6210.7	4872.3	3282.4	2139.6	1853.9	1844.6	1872.5	1891.2	1881.9	1878.8
20°	6785.2	6248.0	4505.9	2636.5	1838.4	1791.8	1813.5	1838.4	1853.9	1838.4	1835.3
22.5°	7033.7	6313.2	4105.3	2117.9	1742.1	1754.5	1773.2	1801.1	1816.6	1794.9	1791.8
25°	7338.0	6415.7	3710.9	1841.5	1695.5	1711.1	1739.0	1770.1	1788.7	1767.0	1763.9
27.5°	7732.4	6580.3	3347.6	1779.4	1649.0	1658.3	1698.6	1745.2	1770.1	1742.1	1742.1
30°	8303.8	6850.5	3033.9	1807.3	1621.0	1599.3	1655.2	1720.4	1748.3	1723.5	1720.4
32.5°	9061.5	7232.4	2841.4	1850.8	1608.6	1530.9	1583.7	1667.6	1714.2	1698.6	1698.6
35°	10055.2	7813.1	2766.9	1900.5	1599.3	1459.5	1496.8	1586.8	1667.6	1683.1	1683.1
37.5°	11260.1	8620.5	2788.6	1922.2	1571.3	1400.5	1419.2	1496.8	1602.4	1652.1	1664.5
40°	12629.6	9561.4	2912.8	1900.5	1540.3	1350.8	1353.9	1412.9	1506.1	1580.6	1605.5
42.5°	14042.5	10660.7	3142.6	1819.7	1512.3	1307.4	1298.0	1338.4	1400.5	1453.3	1475.1
45°	15387.1	11791.1	3369.3	1708.0	1478.2	1263.9	1242.1	1257.7	1270.1	1291.8	1304.3
47.5°	16561.0	12586.1	3304.1	1605.5	1431.6	1214.2	1176.9	1170.7	1133.5	1130.4	1127.3
50°	17371.5	12760.0	2934.6	1503.0	1363.3	1158.3	1099.3	1062.0	996.8	965.8	968.9
52.5°	17629.2	12073.7	2397.3	1400.5	1251.5	1083.8	999.9	940.9	860.2	832.2	829.1
55°	17287.6	10729.1	1916.0	1276.3	1096.2	984.4	891.2	813.6	748.4	714.2	714.2
57.5°	16452.3	9018.0	1515.4	1130.4	931.6	872.6	779.4	701.8	645.9	611.8	605.5
60°	15067.3	7161.0	1198.7	956.5	795.0	751.5	655.2	605.5	555.9	515.5	506.2
62.5°	12964.9	5111.4	940.9	757.7	664.5	614.9	559.0	521.7	462.7	406.8	397.5
65°	10117.3	3127.1	726.7	555.9	534.1	509.3	475.1	441.0	369.5	313.6	304.3
67.5°	6381.5	1481.3	518.6	419.2	422.3	409.9	394.4	366.4	313.6	264.0	257.7
70°	2810.4	717.3	341.6	319.9	313.6	313.6	326.1	316.7	267.1	220.5	211.2
72.5°	956.5	385.1	254.6	242.2	226.7	223.6	273.3	264.0	214.3	170.8	161.5
75°	500.0	257.7	186.3	173.9	136.6	164.6	217.4	205.0	152.2	111.8	102.5
77.5°	326.1	183.2	127.3	111.8	77.6	108.7	161.5	142.8	90.1	55.9	49.7
80°	205.0	121.1	74.5	52.8	37.3	59.0	87.0	62.1	34.2	12.4	9.3
82.5°	108.7	62.1	27.9	18.6	15.5	18.6	21.7	15.5	6.2	0.0	0.0
85°	43.5	21.7	9.3	6.2	3.1	0.0	6.2	3.1	0.0	0.0	0.0
87.5°	15.5	3.1	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)