

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: P971461

Luminaire Tested: **NAV-SB6D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971461
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: LUMARK
Catalog Number: NAV-SB6D-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA 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: 51546.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

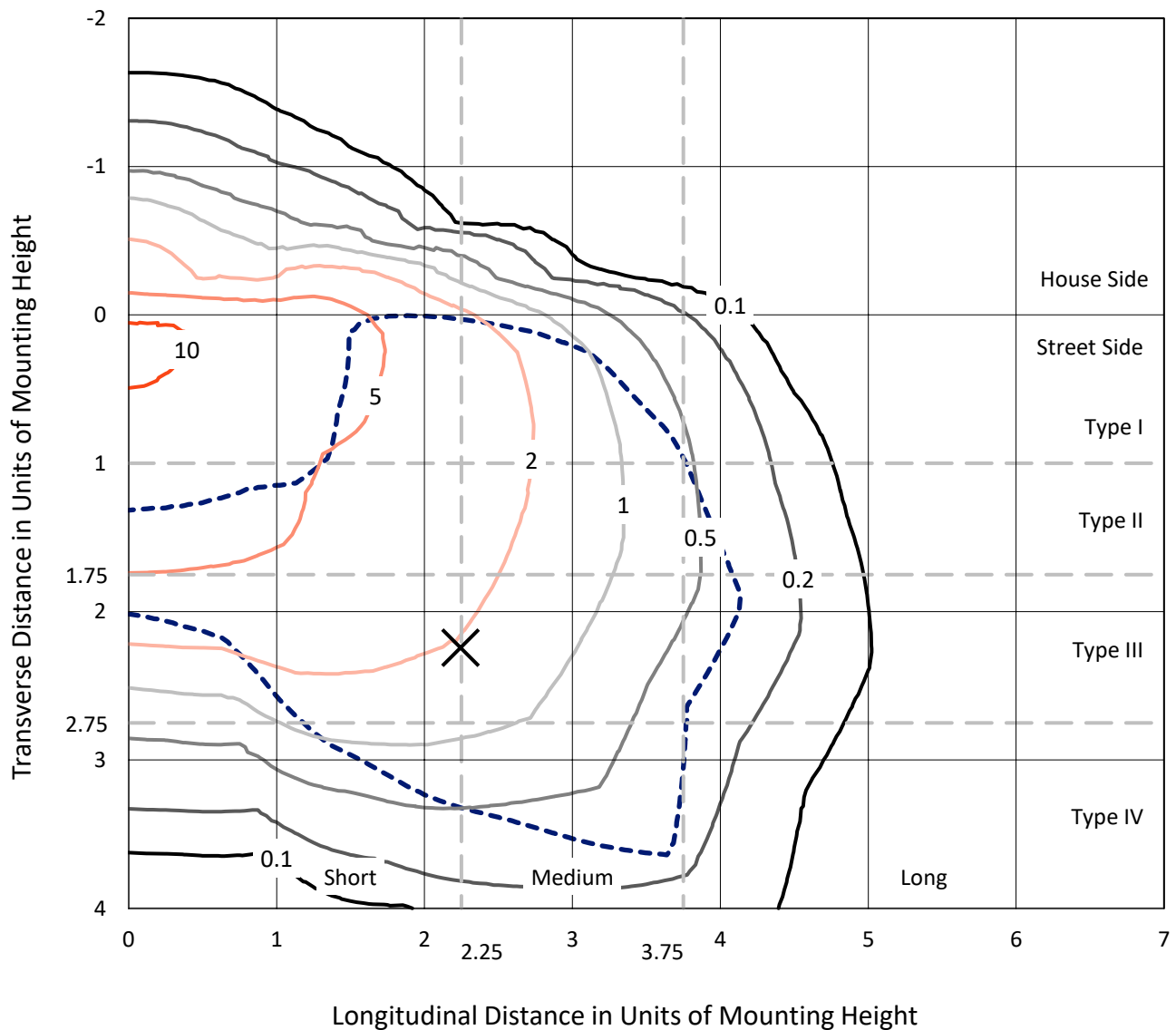
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

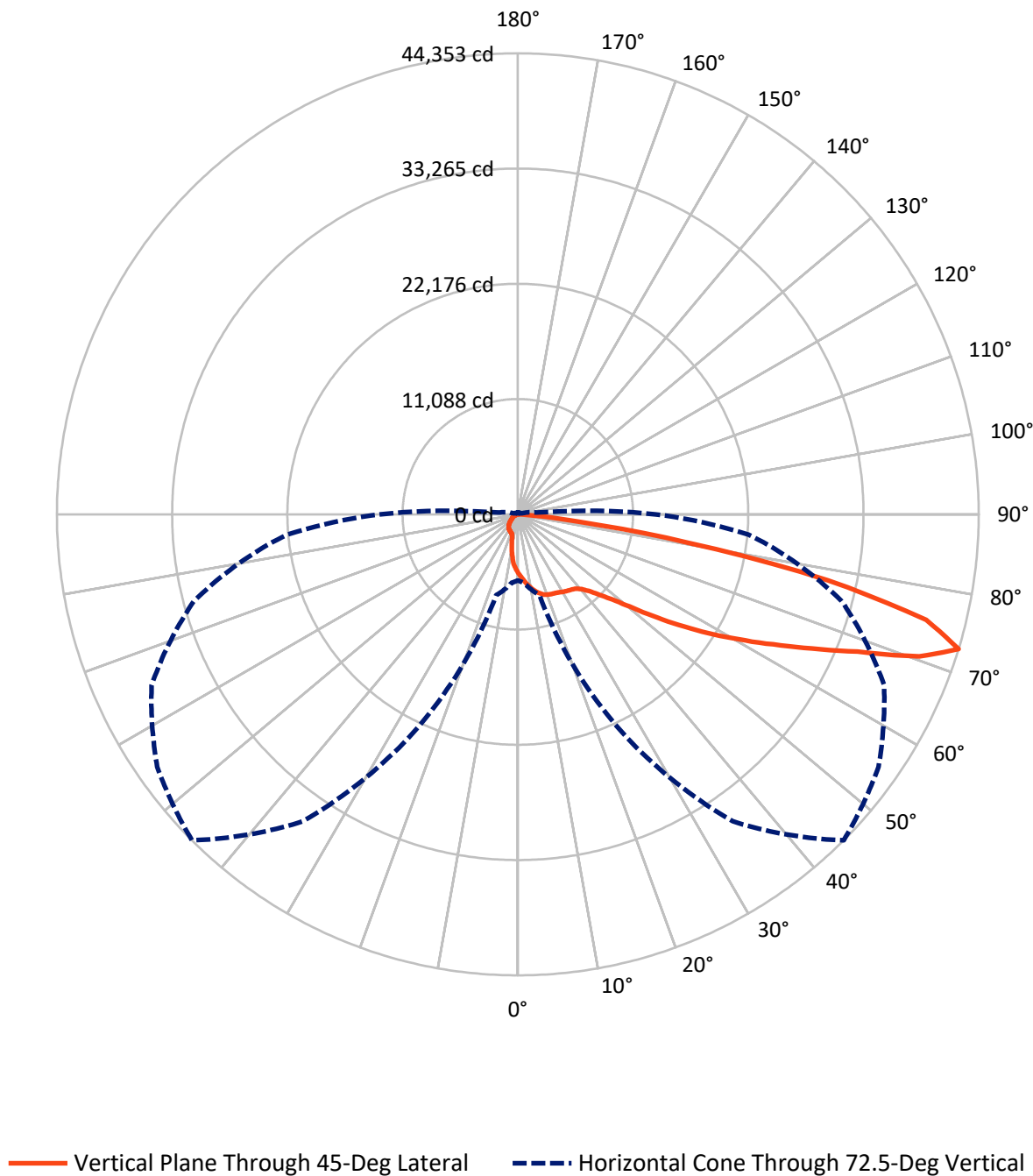
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	5416.1	0.0	5416.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	46130.1	0.0	46130.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	51546.2	0.0	51546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.1	1.0
10°-20°	1555.0	3.0
20°-30°	2553.5	5.0
30°-40°	3621.5	7.0
40°-50°	5986.0	11.6
50°-60°	10753.1	20.9
60°-70°	14931.3	29.0
70°-80°	10830.7	21.0
80°-90°	783.0	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°	51546.2	100.0
0°-180°	51546.2	100.0

Coefficient of Utilization



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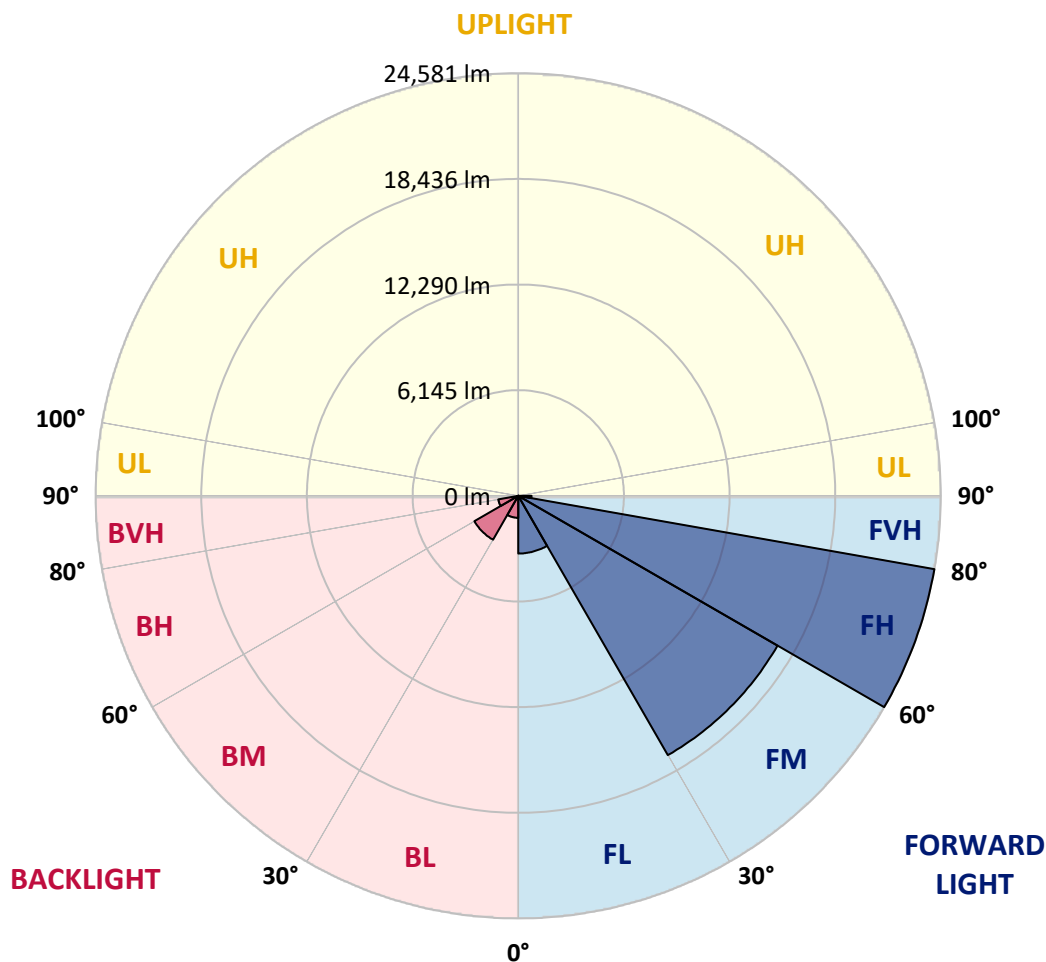
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3357.7	6.5			
FM	(30°-60°)	17415.1	33.8			
FH	(60°-80°)	24580.9	47.7			G5
FVH	(80°-90°)	776.4	1.5			G5
BL	(0°-30°)	1282.9	2.5	B3/2500		
BM	(30°-60°)	2945.6	5.7	B3/5000		
BH	(60°-80°)	1181.1	2.3	B3/2500		G3/2500
BVH	(80°-90°)	6.6	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°	35°	45°	46°	55°	65°	75°	85°
0°	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0
2.5°	6167.7	6178.3	6171.2	6129.0	6058.7	6019.9	5998.8	5928.5	5882.7	5801.8	5717.3
5°	6734.1	6776.4	6751.8	6667.3	6533.7	6438.6	6410.5	6266.2	6136.1	5984.8	5808.9
7.5°	7335.8	7356.9	7311.2	7202.2	7022.7	6860.8	6836.2	6635.6	6428.1	6195.8	5956.6
10°	7856.5	7881.1	7810.8	7652.4	7448.4	7247.9	7212.7	6991.0	6744.7	6459.8	6153.7
12.5°	8292.9	8317.5	8225.9	8036.0	7810.8	7603.2	7568.0	7335.8	7064.9	6748.3	6368.2
15°	8623.5	8669.2	8546.1	8342.1	8099.3	7891.7	7874.2	7645.5	7381.5	7029.8	6625.1
17.5°	8817.0	8862.8	8746.7	8500.4	8292.9	8116.9	8095.8	7905.8	7659.5	7321.8	6874.9
20°	8848.7	8891.0	8767.8	8553.2	8380.8	8240.1	8229.5	8092.3	7912.8	7589.1	7145.8
22.5°	8753.7	8806.5	8693.9	8521.5	8401.9	8328.0	8314.0	8236.5	8134.5	7860.1	7399.2
25°	8655.2	8697.4	8613.0	8461.7	8398.3	8391.4	8401.9	8387.8	8366.7	8134.5	7694.7
27.5°	8648.1	8693.9	8598.9	8454.7	8419.5	8493.4	8503.9	8570.7	8588.4	8384.3	7979.7
30°	8708.0	8739.7	8648.1	8496.8	8479.3	8648.1	8651.7	8771.3	8799.4	8595.4	8261.2
32.5°	8838.2	8873.3	8781.9	8560.2	8535.6	8771.3	8781.9	8940.2	8986.0	8820.5	8556.7
35°	9144.2	9186.5	9081.0	8736.2	8648.1	8887.5	8919.1	9105.6	9197.0	9059.9	8862.8
37.5°	9907.8	9784.6	9640.3	9091.4	8905.0	9070.4	9123.1	9341.3	9503.2	9344.8	9228.7
40°	11804.2	11417.2	10966.8	9696.6	9355.4	9461.0	9503.2	9721.3	9942.9	9788.1	9731.9
42.5°	14650.5	14193.2	13468.4	11089.9	10034.4	10087.2	10118.9	10308.8	10622.0	10498.9	10512.9
45°	17187.3	17021.9	16283.0	13468.4	11304.5	11044.2	11082.9	11181.4	11642.4	11596.5	11688.1
47.5°	19136.4	19041.4	18471.5	16198.6	13450.8	12215.8	12324.9	12370.6	13035.6	13197.5	13443.7
50°	20635.3	20600.1	20089.9	18626.3	16255.0	13943.4	13982.0	13883.5	14879.2	15280.3	15748.3
52.5°	22049.7	22169.3	21792.8	20881.6	19249.1	16205.7	16198.6	15734.2	17078.2	17683.4	18482.1
55°	23326.8	23369.1	23407.8	23182.6	22260.7	18781.1	18714.2	17954.3	19629.1	20255.3	21120.8
57.5°	24526.6	24544.2	24889.0	25349.9	25395.7	21546.5	21423.4	20512.2	22415.6	22862.4	23393.7
60°	25332.4	25413.2	26141.6	27422.2	27981.7	24399.9	24333.1	23404.2	25251.4	25458.9	25360.4
62.5°	24171.2	24663.9	26500.5	29040.7	30423.4	27563.0	27531.3	26658.7	28235.0	28066.1	27221.7
65°	19565.7	20399.6	23629.4	30134.9	32819.5	31095.4	31141.1	30212.3	31299.5	30750.6	28734.6
67.5°	13686.5	14566.1	18387.1	30222.8	35496.9	35243.6	35507.4	34050.9	34554.0	33322.5	29093.5
70°	9464.4	9918.3	12405.8	28330.0	37583.4	40957.5	40950.4	38765.5	37790.9	34494.2	27263.9
72.5°	6364.7	6600.5	8057.1	22475.4	36049.4	44352.7	44148.6	42368.3	38881.6	32260.0	22274.9
75°	2684.5	2856.9	3729.5	12631.0	28520.0	40577.5	40025.1	37442.6	34547.0	25402.7	13897.6
77.5°	851.5	925.4	1470.7	4521.1	15709.6	30500.8	29916.8	23383.1	23154.4	12743.6	5080.5
80°	404.6	471.5	826.9	1815.5	6181.8	16589.1	16508.2	10607.9	9960.5	3440.9	1020.3
82.5°	175.9	207.6	457.4	971.1	2765.4	5917.9	6037.6	3609.8	2987.1	1305.3	313.1
85°	56.3	73.9	211.2	446.8	1168.1	1470.7	1453.0	858.4	1203.2	710.7	109.1
87.5°	0.0	0.0	70.4	102.0	119.6	84.5	95.0	73.9	334.3	197.0	38.7
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°	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0
2.5°	5675.1	5618.8	5520.3	5428.8	5347.9	5267.0	5217.8	5147.3	5140.4	5140.4	5157.9
5°	5713.9	5622.3	5446.4	5260.0	5045.4	4841.3	4637.2	4440.2	4376.9	4331.1	4352.3
7.5°	5826.4	5682.2	5404.2	5048.8	4640.8	4193.9	3880.8	3543.0	3412.8	3342.4	3353.0
10°	5988.3	5791.2	5369.1	4746.3	4084.8	3476.2	3029.3	2663.5	2522.6	2462.9	2462.9
12.5°	6167.7	5924.9	5305.7	4369.8	3476.2	2747.8	2311.6	2142.7	2121.5	2121.5	2121.5
15°	6382.4	6086.8	5196.6	3926.5	2839.4	2174.3	2019.6	2026.6	2047.7	2061.8	2061.8
17.5°	6604.0	6259.2	5024.2	3430.5	2276.4	1956.2	1959.7	1970.3	1987.9	2001.9	2001.9
20°	6843.2	6431.6	4795.6	2902.7	1952.7	1892.9	1903.4	1914.0	1928.0	1935.1	1938.6
22.5°	7100.1	6593.4	4524.7	2385.5	1843.7	1840.1	1843.7	1854.2	1871.8	1871.8	1878.8
25°	7374.6	6772.9	4215.0	2009.0	1787.3	1787.3	1794.4	1801.4	1815.5	1815.5	1819.0
27.5°	7656.0	6938.2	3887.8	1812.0	1738.1	1734.6	1734.6	1745.2	1752.1	1755.6	1759.2
30°	7965.6	7131.7	3560.6	1769.8	1699.3	1681.8	1671.3	1678.2	1685.3	1688.8	1695.9
32.5°	8282.3	7318.2	3268.6	1787.3	1660.7	1629.0	1593.9	1586.8	1586.8	1600.8	1611.4
35°	8634.1	7522.3	3043.4	1847.2	1639.6	1551.6	1495.3	1463.6	1467.2	1488.3	1498.9
37.5°	9056.3	7768.6	2878.0	1899.9	1625.4	1463.6	1372.2	1333.4	1308.8	1333.4	1326.5
40°	9608.7	8131.0	2758.4	1942.2	1607.9	1361.6	1238.5	1175.2	1129.4	1143.5	1136.4
42.5°	10421.5	8700.9	2712.7	1945.7	1569.2	1242.0	1101.3	1016.8	950.0	953.5	939.4
45°	11561.4	9601.7	2948.4	1899.9	1484.7	1111.8	957.0	844.4	802.2	791.6	777.6
47.5°	13123.6	10914.0	3493.7	1804.9	1361.6	985.1	816.3	721.3	689.6	672.0	661.4
50°	15216.9	12599.3	4098.9	1699.3	1238.5	865.5	700.2	640.3	619.2	601.7	598.1
52.5°	17644.7	14309.2	4595.0	1593.9	1115.3	759.9	626.3	591.1	573.5	559.4	555.9
55°	19871.8	15488.0	4566.9	1481.2	995.7	675.6	573.5	552.4	531.3	517.2	510.1
57.5°	21258.1	15653.3	3764.6	1358.1	858.4	608.6	524.3	510.1	485.5	467.9	464.4
60°	21894.9	14710.4	2638.8	1196.3	721.3	545.3	471.5	464.4	432.8	408.2	401.1
62.5°	22011.0	12958.2	1759.2	995.7	601.7	485.5	418.7	408.2	365.9	323.7	302.6
65°	21539.6	10453.2	1217.4	777.6	513.7	422.2	358.9	337.7	292.0	249.8	235.7
67.5°	20047.8	7339.3	847.9	559.4	436.2	334.3	285.0	278.0	242.7	207.6	197.0
70°	17314.0	4183.3	566.4	418.7	344.8	228.7	225.2	232.2	197.0	168.9	154.8
72.5°	13274.9	1914.0	351.9	306.1	235.7	154.8	179.5	183.0	151.3	126.7	112.5
75°	7814.3	819.8	221.7	197.0	119.6	102.0	130.2	133.7	102.0	80.9	70.4
77.5°	2659.9	309.7	140.7	116.1	59.9	56.3	84.5	84.5	56.3	31.7	24.6
80°	605.2	116.1	70.4	45.7	28.2	24.6	28.2	24.6	14.0	3.5	0.0
82.5°	172.4	45.7	28.2	17.6	10.6	10.6	3.5	0.0	0.0	0.0	0.0
85°	49.3	21.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	3.5	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)