

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: P971459

Luminaire Tested: **NAV-SB6D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50665.7 lumens
Efficiency: N/A
Efficacy: 115.1 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



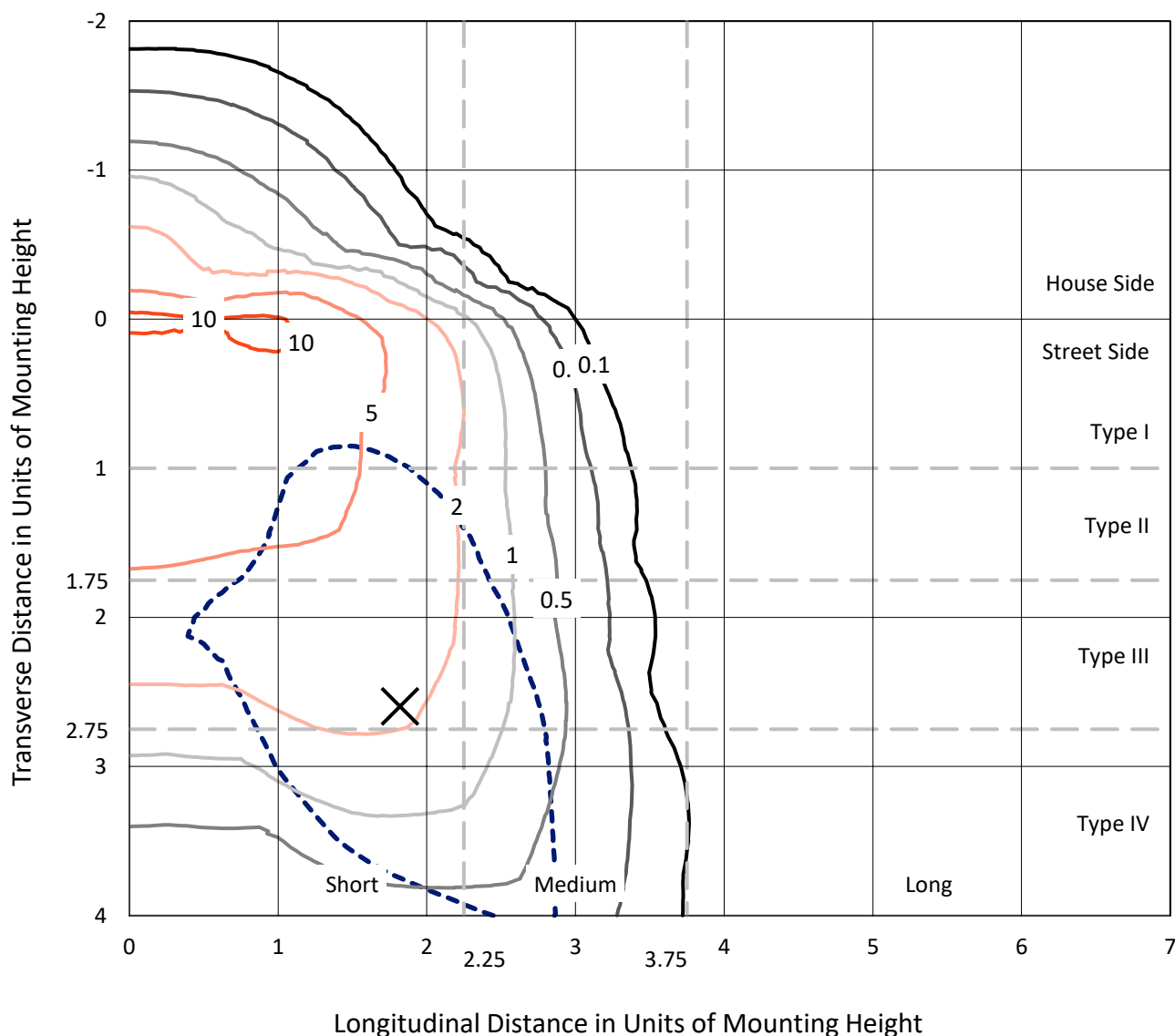
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

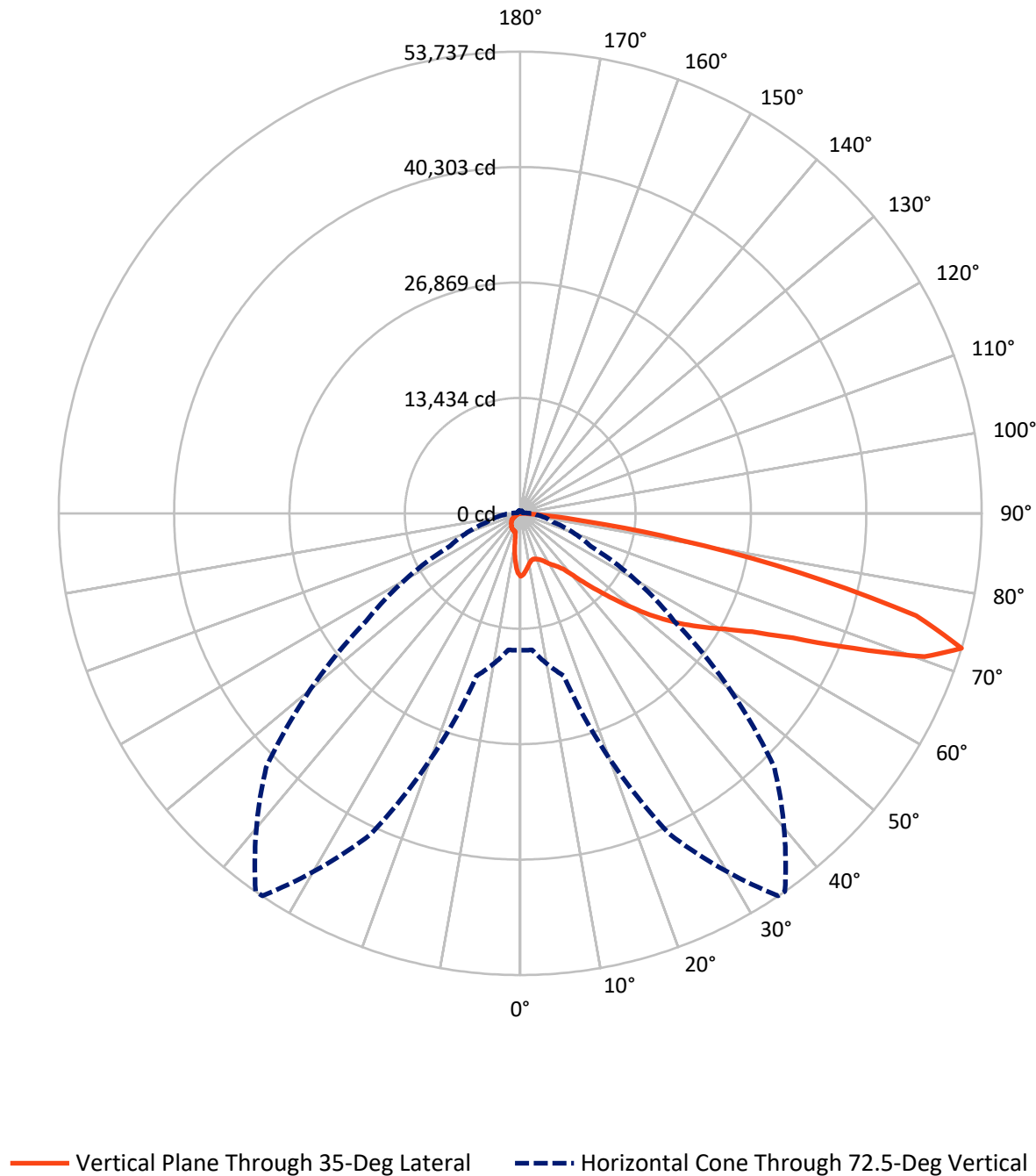


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc

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	5702.2	0.0	5702.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	44963.6	0.0	44963.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	50665.7	0.0	50665.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	1.2
10°-20°	1411.6	2.8
20°-30°	2293.1	4.5
30°-40°	3826.1	7.6
40°-50°	7239.0	14.3
50°-60°	11502.7	22.7
60°-70°	14229.7	28.1
70°-80°	8845.3	17.5
80°-90°	714.8	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°	50665.7	100.0
0°-180°	50665.7	100.0

Coefficient of Utilization



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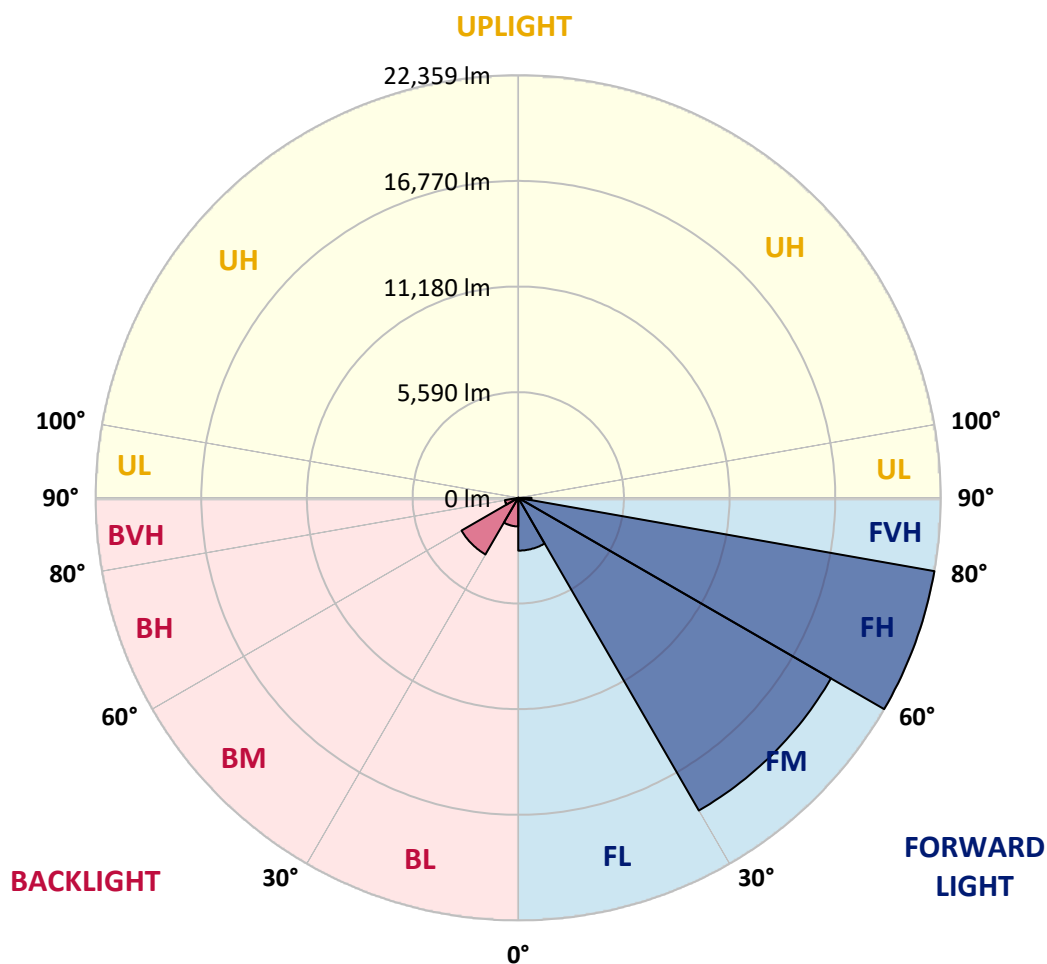
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2793.0	5.5			
FM	(30°-60°)	19106.1	37.7			
FH	(60°-80°)	22359.4	44.1			G5
FVH	(80°-90°)	705.1	1.4			G4/750
BL	(0°-30°)	1515.2	3.0	B3/2500		
BM	(30°-60°)	3461.7	6.8	B3/5000		
BH	(60°-80°)	715.5	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.7	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°	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2
2.5°	7016.4	7075.9	7087.1	7105.6	7105.6	7127.8	7165.0	7216.9	7302.3	7346.9	7376.6
5°	6467.0	6511.6	6567.3	6611.9	6697.2	6708.3	6853.2	6994.2	7191.0	7339.4	7443.4
7.5°	5913.8	5965.8	6040.1	6147.7	6259.2	6292.6	6511.6	6749.2	7061.0	7339.4	7514.0
10°	5524.0	5527.8	5594.7	5702.3	5880.4	5921.3	6188.6	6526.5	6916.2	7294.9	7580.8
12.5°	5305.1	5331.0	5360.7	5442.4	5613.2	5639.1	5925.0	6322.2	6771.5	7268.9	7658.7
15°	5305.1	5323.6	5342.2	5383.0	5520.3	5542.7	5795.0	6192.3	6697.2	7280.1	7785.0
17.5°	5360.7	5390.5	5375.6	5423.9	5568.6	5583.5	5806.2	6155.2	6693.5	7350.6	7978.0
20°	5494.4	5516.7	5486.9	5516.7	5661.5	5691.1	5921.3	6225.7	6756.6	7473.1	8219.3
22.5°	5706.0	5717.1	5646.6	5668.9	5817.4	5854.5	6121.8	6426.2	6908.8	7669.9	8542.2
25°	5973.3	5995.5	5887.9	5913.8	6055.0	6099.5	6407.7	6726.9	7150.1	7940.9	8954.4
27.5°	6281.4	6292.6	6199.7	6196.0	6378.0	6441.0	6752.9	7098.1	7473.1	8282.4	9474.1
30°	6634.1	6667.5	6578.4	6563.6	6793.7	6845.7	7153.8	7554.8	7948.3	8794.7	10212.9
32.5°	6912.5	6938.5	6886.6	6923.7	7157.6	7198.4	7640.1	8200.7	8694.5	9522.4	11218.9
35°	7313.5	7328.3	7209.5	7276.4	7543.6	7647.6	8304.7	9106.6	9633.8	10435.6	12533.1
37.5°	8765.0	8765.0	8260.2	7929.7	8185.9	8278.7	9214.2	10246.3	10792.0	11660.7	14188.9
40°	10773.5	10740.1	10001.2	9325.6	9292.1	9474.1	10509.8	11682.9	12288.1	13130.9	16052.5
42.5°	12915.5	12863.5	11857.5	11189.2	11077.9	11140.9	12005.9	13453.8	14070.1	14923.9	18057.2
45°	14816.3	14801.4	13880.8	12982.3	12781.9	12982.3	13873.3	15525.4	15967.1	16865.6	20058.2
47.5°	16408.9	16408.9	15736.9	15150.4	15046.5	15165.3	16401.4	17823.3	17782.5	18933.4	22007.3
50°	18242.8	18228.0	17589.4	17337.0	17444.7	17611.8	19312.0	20243.9	19660.9	20964.0	23748.3
52.5°	19527.4	19616.4	19397.4	19356.5	19906.0	20195.6	22267.1	22612.3	21342.7	22890.8	25051.4
55°	20544.5	20648.5	20900.9	21186.7	22244.9	22623.5	25129.4	24858.4	22749.7	24561.4	25801.3
57.5°	21984.9	21836.5	22226.3	22790.6	24502.0	24958.6	27902.6	26978.1	23882.0	25916.4	25883.0
60°	23733.5	23755.8	23822.6	24535.4	26755.4	27342.0	30634.9	28982.9	24609.6	26748.0	24977.2
62.5°	25834.7	25868.1	26005.5	27100.7	29781.1	30334.2	33545.4	30623.7	24943.8	26514.1	22638.4
65°	25690.0	25831.0	27364.2	31110.1	34380.8	34926.5	36942.3	31774.6	24438.9	24375.7	18432.2
67.5°	23403.1	23633.2	26198.6	35899.1	41315.5	41924.3	41048.2	32001.0	22259.6	18955.6	12024.5
70°	20403.4	20485.1	23570.2	40205.5	49345.4	49961.8	44723.5	29510.1	16891.5	10573.0	5386.7
72.5°	15933.7	15952.3	19571.9	41204.2	53703.8	53737.3	41839.0	21907.0	9084.3	4061.4	1871.0
75°	11382.3	11270.9	13108.5	33415.5	47248.0	47626.6	31366.2	10275.9	3471.2	1919.3	931.8
77.5°	6103.3	6225.7	7417.4	19816.9	32639.6	33285.5	17114.2	2962.6	1767.1	1306.8	616.2
80°	1885.9	1989.8	3040.5	9073.2	18487.8	18877.6	6344.5	1317.9	1232.6	931.8	404.7
82.5°	594.0	616.2	1418.2	3812.7	7673.6	7851.8	1837.6	746.2	842.8	616.2	237.6
85°	170.8	174.5	631.1	1421.9	1897.1	1934.2	516.0	289.6	482.6	382.4	122.5
87.5°	18.6	59.3	237.6	237.6	167.1	163.4	55.7	63.1	137.4	48.3	22.2
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°	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2	7343.2
2.5°	7358.1	7361.8	7313.5	7231.8	7142.7	7068.4	6975.6	6901.4	6849.5	6834.6	6860.5
5°	7410.0	7384.0	7246.6	6997.9	6700.9	6444.8	6158.9	5932.5	5784.0	5720.8	5743.1
7.5°	7487.9	7413.7	7113.0	6622.9	6055.0	5550.1	5037.8	4640.5	4388.1	4261.8	4280.4
10°	7554.8	7406.2	6890.3	6080.9	5212.2	4447.5	3756.9	3278.1	3010.7	2884.6	2888.2
12.5°	7617.9	7402.6	6600.7	5438.6	4261.8	3326.3	2684.1	2446.5	2372.3	2346.2	2338.8
15°	7736.7	7413.7	6236.8	4703.6	3315.2	2513.3	2279.4	2275.7	2290.6	2283.2	2279.4
17.5°	7900.0	7424.8	5824.8	3924.0	2557.9	2216.4	2205.2	2238.6	2260.8	2249.8	2246.0
20°	8111.6	7469.4	5386.7	3151.9	2197.7	2142.0	2168.1	2197.7	2216.4	2197.7	2194.0
22.5°	8408.6	7547.4	4907.8	2531.9	2082.7	2097.6	2119.8	2153.2	2171.8	2145.7	2142.0
25°	8772.5	7669.9	4436.3	2201.5	2026.9	2045.6	2078.9	2116.1	2138.4	2112.3	2108.6
27.5°	9244.0	7866.6	4002.0	2127.2	1971.3	1982.5	2030.7	2086.4	2116.1	2082.7	2082.7
30°	9927.0	8189.6	3627.1	2160.6	1937.9	1911.9	1978.8	2056.7	2090.1	2060.4	2056.7
32.5°	10832.8	8646.2	3396.8	2212.6	1923.0	1830.2	1893.4	1993.5	2049.3	2030.7	2030.7
35°	12020.8	9340.4	3307.8	2272.0	1911.9	1744.9	1789.3	1897.1	1993.5	2012.2	2012.2
37.5°	13461.2	10305.7	3333.7	2297.9	1878.5	1674.3	1696.6	1789.3	1915.6	1975.0	1989.8
40°	15098.5	11430.5	3482.2	2272.0	1841.3	1614.9	1618.6	1689.2	1800.5	1889.6	1919.3
42.5°	16787.6	12744.7	3756.9	2175.5	1808.0	1562.9	1551.7	1600.0	1674.3	1737.4	1763.4
45°	18395.1	14096.1	4027.9	2041.8	1767.1	1511.0	1484.9	1503.6	1518.3	1544.4	1559.2
47.5°	19798.3	15046.5	3950.0	1919.3	1711.4	1451.6	1407.0	1399.5	1355.0	1351.4	1347.6
50°	20767.3	15254.4	3508.3	1796.8	1629.7	1384.8	1314.2	1269.7	1191.7	1154.6	1158.2
52.5°	21075.4	14433.8	2866.0	1674.3	1496.1	1295.6	1195.4	1124.8	1028.4	995.0	991.2
55°	20667.1	12826.4	2290.6	1525.8	1310.5	1176.8	1065.5	972.6	894.7	853.8	853.8
57.5°	19668.4	10780.8	1811.7	1351.4	1113.8	1043.1	931.8	839.0	772.1	731.3	724.0
60°	18012.6	8560.8	1432.9	1143.4	950.4	898.4	783.3	724.0	664.5	616.2	605.2
62.5°	15499.3	6110.6	1124.8	905.8	794.5	735.0	668.2	623.7	553.2	486.4	475.2
65°	12095.1	3738.4	868.7	664.5	638.6	608.8	568.0	527.2	441.8	374.9	363.8
67.5°	7629.0	1770.8	620.0	501.2	504.9	490.1	471.5	438.1	374.9	315.6	308.1
70°	3359.7	857.6	408.4	382.4	374.9	374.9	389.8	378.6	319.3	263.6	252.5
72.5°	1143.4	460.3	304.4	289.6	271.0	267.3	326.7	315.6	256.1	204.2	193.0
75°	597.7	308.1	222.7	207.9	163.4	196.8	259.8	245.0	181.9	133.7	122.5
77.5°	389.8	219.0	152.2	133.7	92.8	130.0	193.0	170.8	107.6	66.8	59.3
80°	245.0	144.8	89.1	63.1	44.6	70.5	103.9	74.2	40.8	14.9	11.2
82.5°	130.0	74.2	33.4	22.2	18.6	22.2	26.0	18.6	7.4	0.0	0.0
85°	52.0	26.0	11.2	7.4	3.7	0.0	7.4	3.7	0.0	0.0	0.0
87.5°	18.6	3.7	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)