

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: P971489

Luminaire Tested: **NAV-SB6D-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66962.2 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - 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

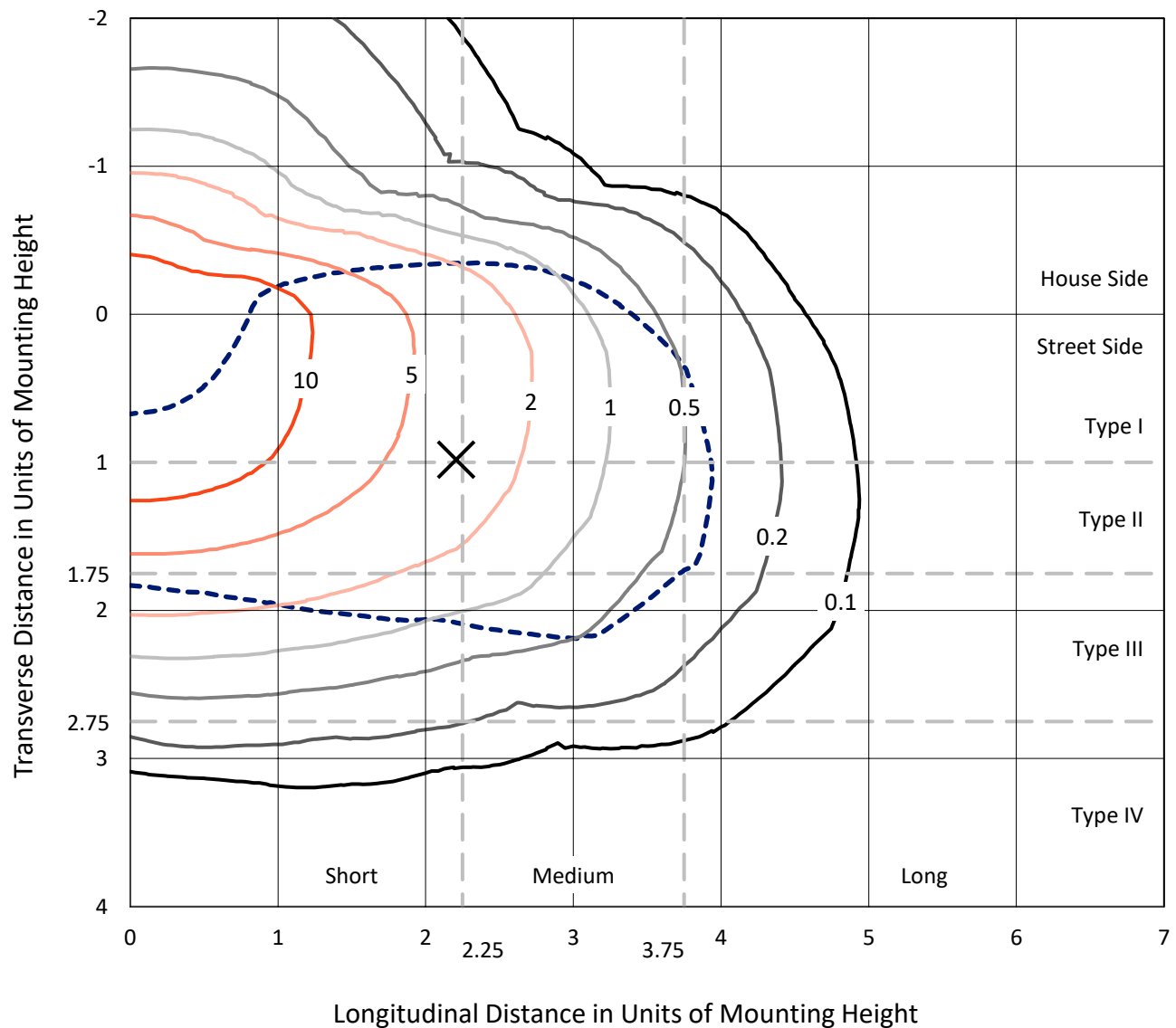


REPORT NUMBER: P971489

CATALOG NUMBER: NAV-SB6D-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

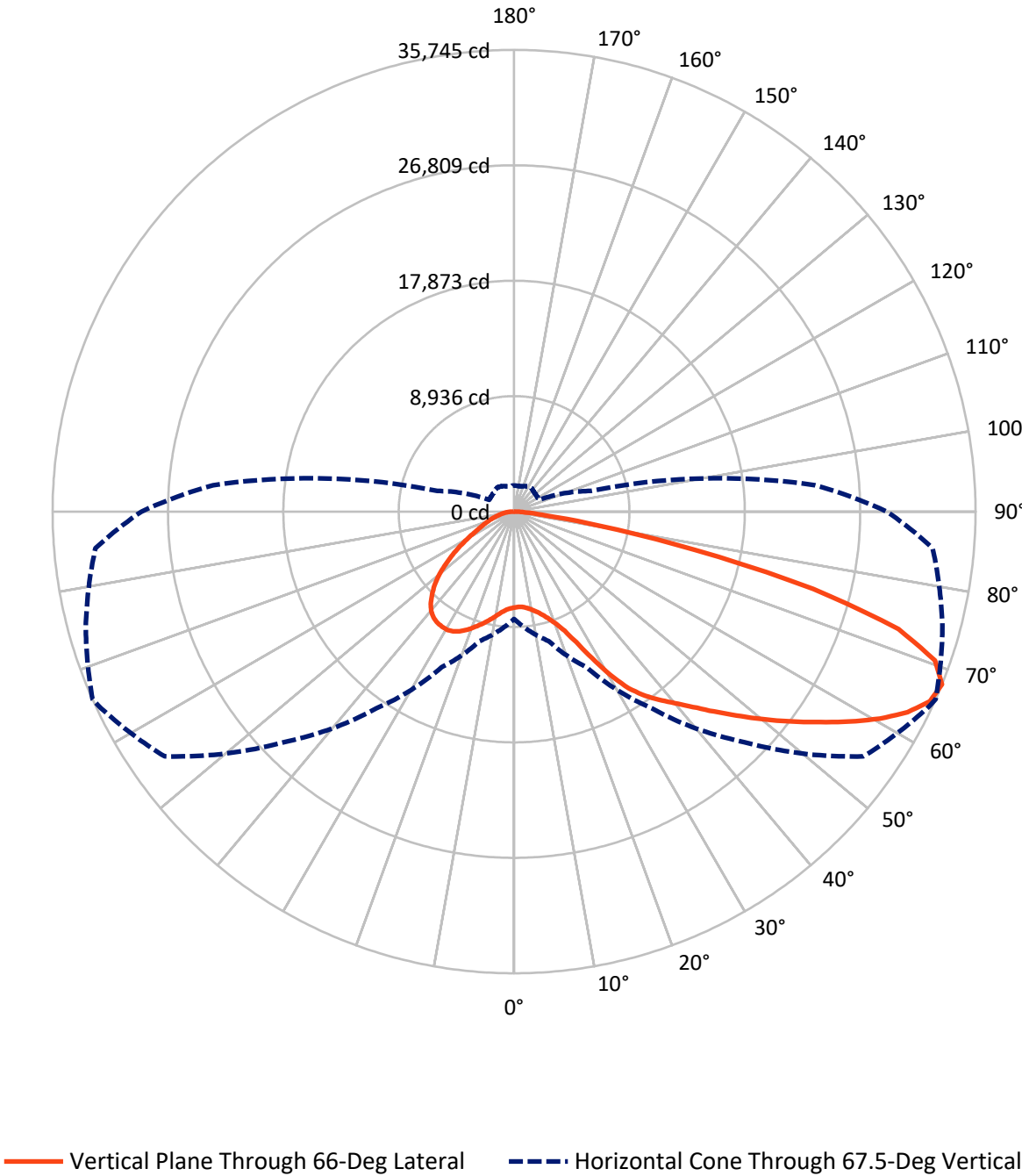
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
Type III - Short - N/A

REPORT NUMBER: P971489
CATALOG NUMBER: NAV-SB6D-750-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P971489

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16650.0	0.0	16650.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	50312.3	0.0	50312.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	66962.2	0.0	66962.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.4	1.1
10°-20°	2432.8	3.6
20°-30°	4689.1	7.0
30°-40°	8221.8	12.3
40°-50°	12223.1	18.3
50°-60°	15494.0	23.1
60°-70°	15160.5	22.6
70°-80°	7231.7	10.8
80°-90°	772.9	1.2
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°	66962.2	100.0
0°-180°	66962.2	100.0

Coefficient of Utilization



REPORT NUMBER: P971489

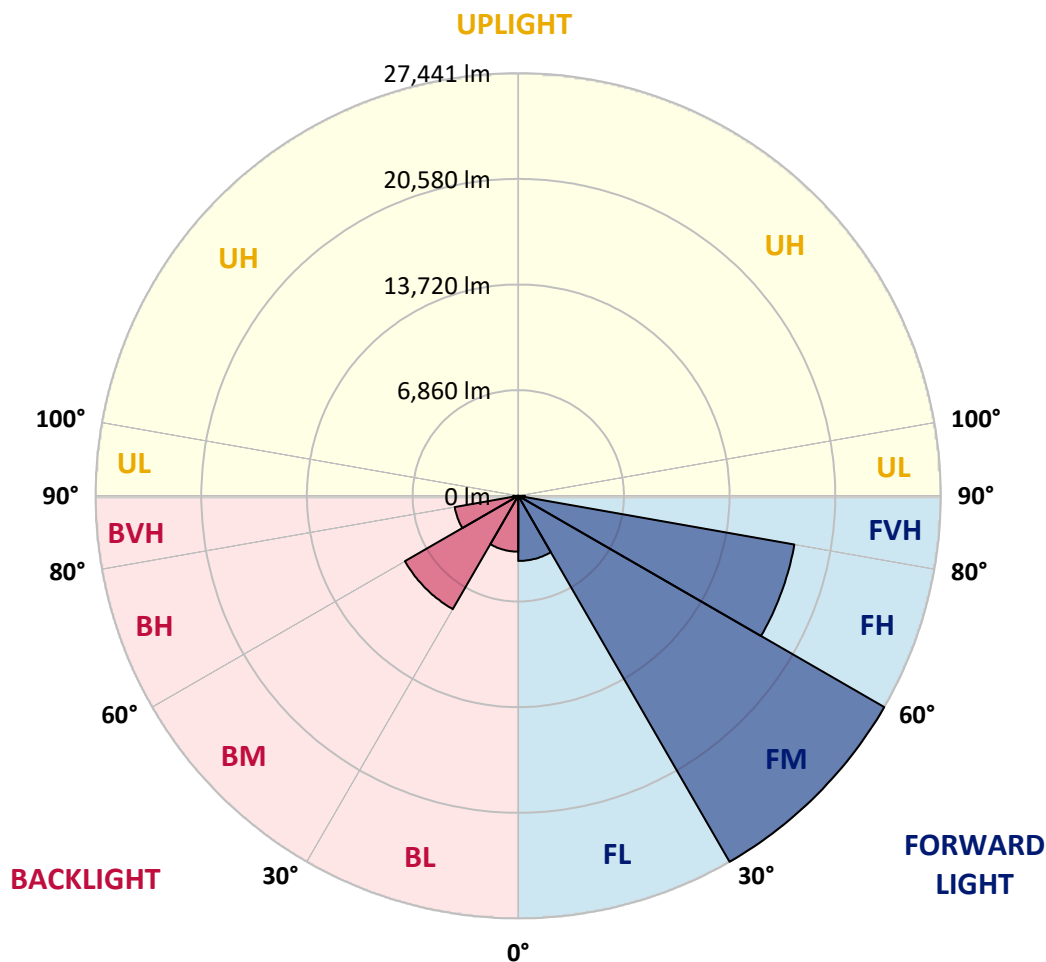
CATALOG NUMBER: NAV-SB6D-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4231.3	6.3			
FM	(30°-60°)	27440.6	41.0			
FH	(60°-80°)	18202.2	27.2			G5
FVH	(80°-90°)	438.2	0.7			G3/500
BL	(0°-30°)	3627.0	5.4	B4/5000		
BM	(30°-60°)	8498.3	12.7	B4/8500		
BH	(60°-80°)	4190.0	6.3	B4/5000		G4/5000
BVH	(80°-90°)	334.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P971489

CATALOG NUMBER: NAV-SB6D-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9
2.5°	7349.6	7391.8	7381.2	7363.7	7360.1	7367.2	7377.7	7388.3	7384.8	7402.3	7430.5
5°	7328.4	7370.7	7367.2	7367.2	7381.2	7409.4	7426.9	7444.6	7426.9	7448.1	7486.8
7.5°	7342.6	7374.3	7388.3	7402.3	7437.5	7490.3	7532.5	7571.3	7550.2	7574.7	7624.1
10°	7522.0	7546.7	7560.7	7560.7	7585.3	7645.2	7687.3	7757.7	7740.1	7778.8	7842.2
12.5°	7849.1	7873.8	7873.8	7859.7	7877.3	7916.1	7930.1	8007.5	7975.8	8039.2	8102.5
15°	8250.2	8299.5	8260.8	8236.2	8243.3	8281.9	8278.4	8338.2	8306.6	8359.3	8415.7
17.5°	8693.5	8756.9	8693.5	8690.1	8676.0	8718.1	8721.7	8774.5	8718.1	8756.9	8795.6
20°	9217.8	9305.8	9253.0	9270.5	9238.8	9256.5	9274.1	9351.5	9263.5	9291.6	9281.1
22.5°	9956.6	10062.1	10005.8	10072.7	10051.6	10037.5	10034.0	10171.2	10034.0	10044.6	9942.5
25°	11033.2	11159.9	11061.3	11152.8	11152.8	11198.5	11251.3	11427.2	11198.5	11131.7	10867.9
27.5°	12623.4	12750.1	12556.6	12612.8	12595.3	12707.8	12651.6	13087.8	12841.6	12732.4	12201.3
30°	14537.4	14762.6	14396.6	14382.6	14365.0	14544.3	14625.3	14913.9	14664.0	14554.9	13914.6
32.5°	16606.0	16841.8	16405.5	16278.8	16212.0	16321.1	16254.2	16486.4	16314.1	16145.2	15353.6
35°	18794.4	19026.7	18611.4	18365.2	18097.8	17869.1	17629.9	17689.7	17527.8	17271.0	16451.2
37.5°	20863.2	21288.8	20849.1	20585.2	20092.7	19645.9	18977.4	18699.4	18548.1	18312.4	17485.7
40°	22970.6	23213.3	22879.1	22653.9	22119.2	21419.0	20349.4	19761.9	19557.9	19329.1	18629.1
42.5°	24522.1	24754.3	24574.9	24420.1	24001.4	23188.7	21806.1	21070.7	20775.2	20518.3	19923.7
45°	25753.5	25925.8	25813.3	25869.6	25690.2	24902.1	23315.4	22474.5	22168.4	21855.3	21387.3
47.5°	26249.5	26432.5	26612.0	26946.1	27252.3	26671.7	24937.2	23994.3	23670.7	23350.5	22889.7
50°	26193.3	26379.7	26900.4	27611.1	28561.0	28367.5	26647.1	25612.8	25313.7	24947.8	24522.1
52.5°	25743.0	25954.0	26622.5	27804.7	29317.5	29637.6	28388.6	27284.0	27002.5	26566.2	26140.5
55°	24560.8	24687.4	25690.2	27364.8	29496.9	30524.2	30095.0	29064.2	28782.7	28174.1	27709.6
57.5°	22369.0	22551.8	24012.0	26179.2	29046.6	31125.9	31593.8	30935.8	30664.9	29788.9	29303.4
60°	19508.6	19800.6	21471.8	24187.8	27899.6	31122.3	32955.3	32775.9	32550.7	31379.1	30872.5
62.5°	16271.9	16609.6	18217.4	21373.3	25894.2	30239.2	33806.8	34316.9	34200.8	32846.2	32198.9
65°	12496.8	12729.0	14329.8	17731.9	22773.6	28342.9	33905.3	35368.9	35390.0	33961.5	32891.9
67.5°	8320.6	8989.0	10378.8	13305.9	18593.9	25243.4	33039.7	35541.3	35745.2	34345.0	32543.6
70°	4060.0	4939.6	6301.2	8647.8	13305.9	20490.2	30777.6	34126.9	34580.7	33226.2	30467.9
72.5°	1685.2	1970.3	2712.6	4267.6	7638.1	13826.6	26232.0	30292.0	31132.8	29440.6	25616.3
75°	1136.4	1231.3	1551.5	2188.4	3479.6	6818.3	18917.5	22587.1	23941.6	22235.2	18175.2
77.5°	876.1	935.8	1129.3	1530.4	2068.8	2578.9	10125.5	13612.1	14312.2	13249.7	9457.1
80°	689.6	735.3	844.4	1115.3	1467.1	1379.1	3451.4	6167.4	6572.1	5513.1	3039.7
82.5°	598.1	615.7	605.2	756.4	974.6	805.6	1132.8	2276.3	2512.1	1822.4	992.1
85°	432.8	482.0	503.1	467.9	517.2	408.2	464.4	805.6	886.6	791.6	559.4
87.5°	175.9	260.3	320.2	302.6	190.0	116.1	144.2	235.7	270.9	295.5	183.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P971489

CATALOG NUMBER: NAV-SB6D-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9	7426.9
2.5°	7434.0	7458.6	7476.2	7497.4	7511.4	7532.5	7574.7	7599.4	7602.9	7620.5	7617.0
5°	7500.8	7536.1	7574.7	7631.0	7694.4	7747.2	7828.0	7884.4	7905.5	7923.0	7919.6
7.5°	7645.2	7694.4	7764.8	7863.3	7954.7	8025.1	8123.6	8190.5	8257.3	8281.9	8285.5
10°	7859.7	7930.1	8032.1	8165.9	8264.4	8355.8	8457.9	8514.2	8581.0	8609.1	8623.2
12.5°	8127.1	8201.0	8334.7	8521.1	8612.7	8676.0	8711.2	8697.1	8711.2	8735.8	8742.8
15°	8433.2	8514.2	8665.5	8865.9	8929.3	8873.0	8795.6	8725.2	8714.7	8721.7	8746.3
17.5°	8795.6	8855.4	9031.3	9200.2	9154.5	8922.2	8753.4	8640.8	8584.5	8566.9	8591.6
20°	9302.2	9302.2	9446.5	9552.0	9245.9	8851.9	8588.0	8405.1	8289.0	8239.7	8229.1
22.5°	9917.9	9861.6	9953.1	9879.2	9228.4	8654.9	8289.0	7972.3	7796.5	7726.0	7715.5
25°	10698.9	10632.1	10607.5	10150.1	9101.7	8341.8	7747.2	7363.7	7208.8	7170.2	7177.2
27.5°	11877.6	11708.7	11388.6	10297.9	8869.4	7849.1	7113.9	6758.5	6670.6	6674.1	6684.6
30°	13446.7	13108.9	12324.4	10322.5	8489.5	7152.6	6466.5	6213.2	6171.0	6188.5	6248.4
32.5°	14899.7	14579.6	13281.3	10209.9	7905.5	6470.0	5886.0	5717.1	5653.8	5674.9	5703.1
35°	16039.6	15951.7	14168.0	10051.6	7187.7	5829.7	5365.3	5221.0	5097.9	5069.8	5090.9
37.5°	17116.2	17081.0	14832.9	9830.0	6477.1	5375.8	4946.6	4756.6	4577.2	4478.7	4482.2
40°	18298.3	18263.1	15269.1	9488.7	5847.3	4981.8	4570.2	4320.4	4098.8	3919.3	3936.9
42.5°	19628.2	19420.7	15476.7	8999.6	5312.6	4647.6	4264.1	3926.4	3634.3	3469.0	3479.6
45°	21081.3	20613.4	15473.2	8376.9	4862.2	4341.5	3936.9	3458.5	3187.5	3032.8	3025.7
47.5°	22622.3	21753.3	15283.3	7687.3	4426.0	4003.8	3430.3	3064.3	2885.0	2789.9	2768.8
50°	24212.4	22819.3	14959.6	6895.8	3979.2	3620.3	3113.6	2863.8	2726.6	2638.7	2607.0
52.5°	25707.7	23786.8	14569.0	5998.6	3525.3	3247.3	2972.9	2779.4	2635.2	2536.7	2494.4
55°	27097.4	24620.6	14016.7	5080.3	3155.9	2997.5	2906.1	2744.2	2578.9	2462.8	2417.1
57.5°	28332.3	25162.4	13063.2	4218.4	2892.0	2825.1	2835.7	2684.4	2494.4	2395.9	2332.6
60°	29359.7	25560.0	11652.4	3419.7	2677.4	2656.3	2726.6	2571.8	2350.2	2237.6	2188.4
62.5°	29975.4	25552.9	9921.4	2800.5	2494.4	2501.5	2582.4	2431.1	2205.9	2100.4	2068.8
65°	29922.6	24926.7	8021.5	2395.9	2318.5	2325.5	2431.1	2276.3	2086.3	2022.9	2019.5
67.5°	28863.6	23399.8	6153.4	2132.0	2125.0	2156.7	2279.8	2170.7	2012.4	2005.4	2016.0
70°	25996.3	20229.8	4433.0	1921.0	1924.4	1970.3	2132.0	2103.9	1973.7	1987.8	1984.3
72.5°	20845.5	15424.0	2976.4	1699.3	1702.8	1776.7	1991.4	2051.1	1935.0	2121.5	2149.6
75°	13882.9	9618.9	1913.9	1463.6	1467.1	1562.1	1868.2	1949.1	1829.5	2114.5	2132.0
77.5°	6670.6	4324.0	1386.2	1231.3	1231.3	1319.4	1614.9	1745.1	1558.6	1643.0	1505.8
80°	2304.4	1625.4	1090.7	992.1	971.0	1030.8	1361.5	1512.8	1344.0	1238.4	1161.0
82.5°	907.7	844.4	876.1	770.5	700.2	738.8	1059.0	1249.0	988.6	893.6	890.1
85°	520.7	548.9	619.2	510.1	404.6	453.9	777.6	897.2	745.9	657.9	672.0
87.5°	140.7	193.5	285.0	263.8	183.0	193.5	369.4	496.1	429.3	330.7	341.2
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)