

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: P971456

Luminaire Tested: **NAV-SB6D-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55711.8 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

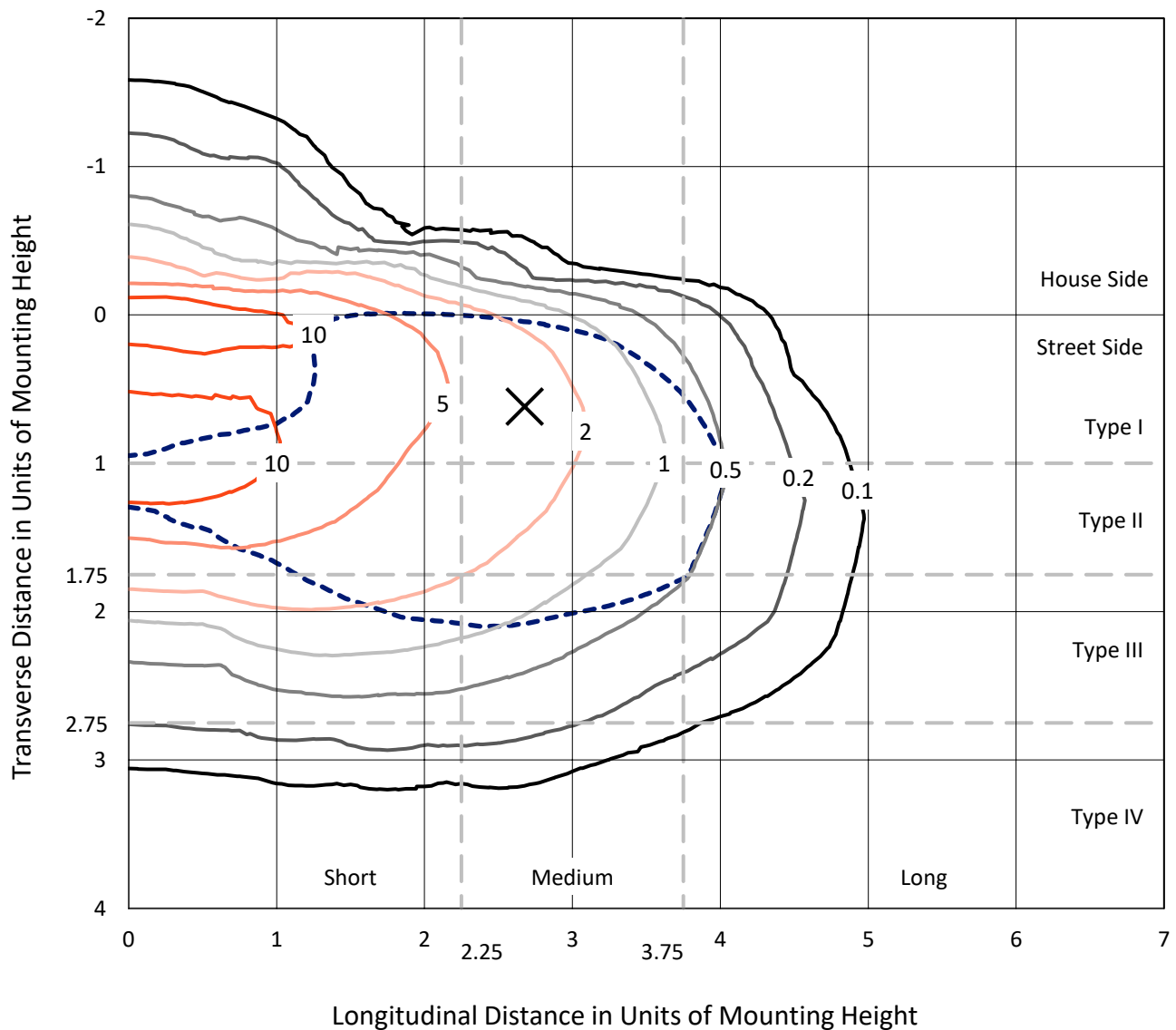


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Iso-Footcandle Lines of Horizontal Illumination

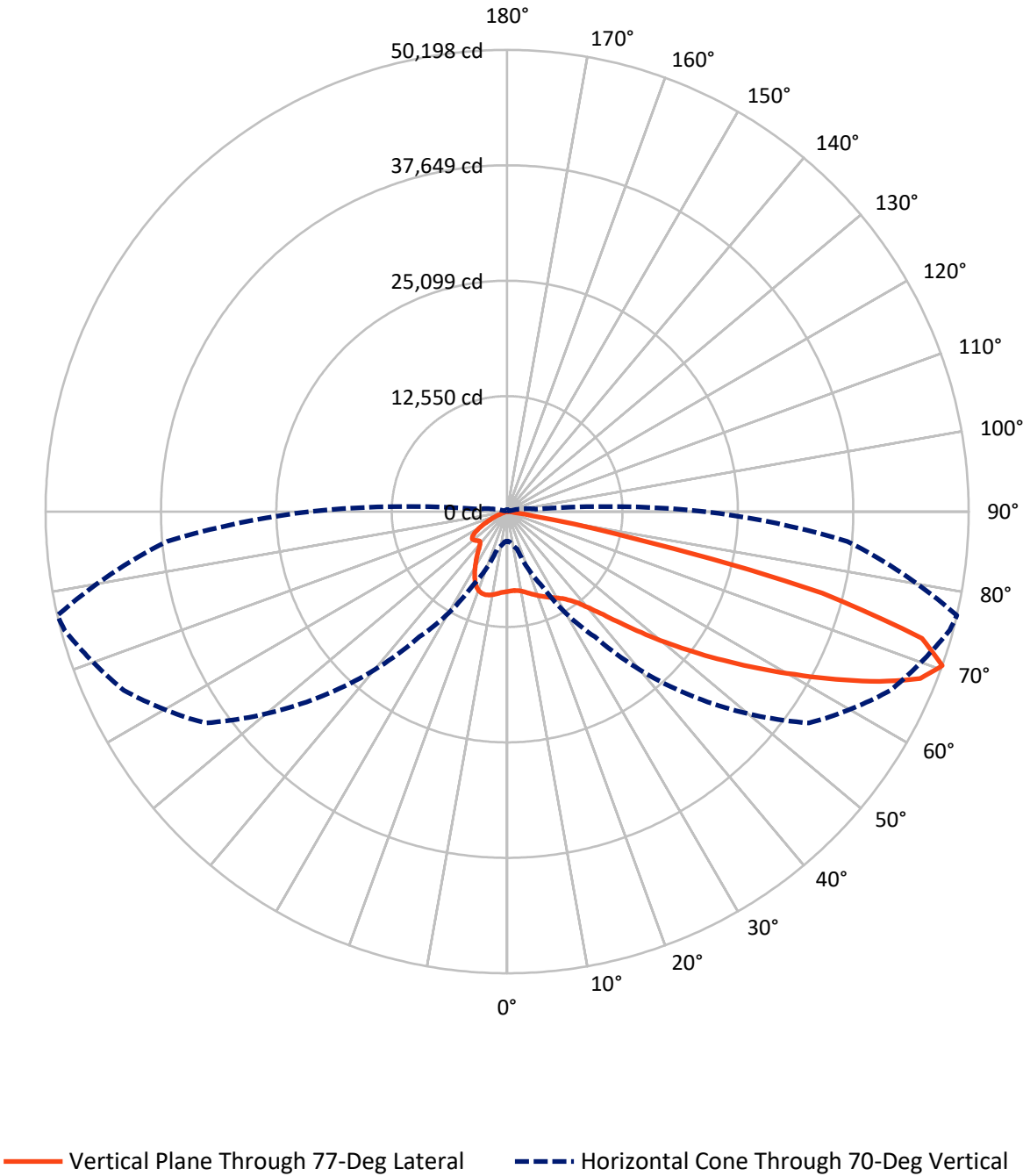
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5872.8	0.0	5872.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	49839.0	0.0	49839.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	55711.8	0.0	55711.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.9	1.3
10°-20°	1777.9	3.2
20°-30°	2749.9	4.9
30°-40°	4989.9	9.0
40°-50°	9419.0	16.9
50°-60°	13609.7	24.4
60°-70°	14487.2	26.0
70°-80°	7677.2	13.8
80°-90°	252.1	0.5
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°	55711.8	100.0
0°-180°	55711.8	100.0

Coefficient of Utilization



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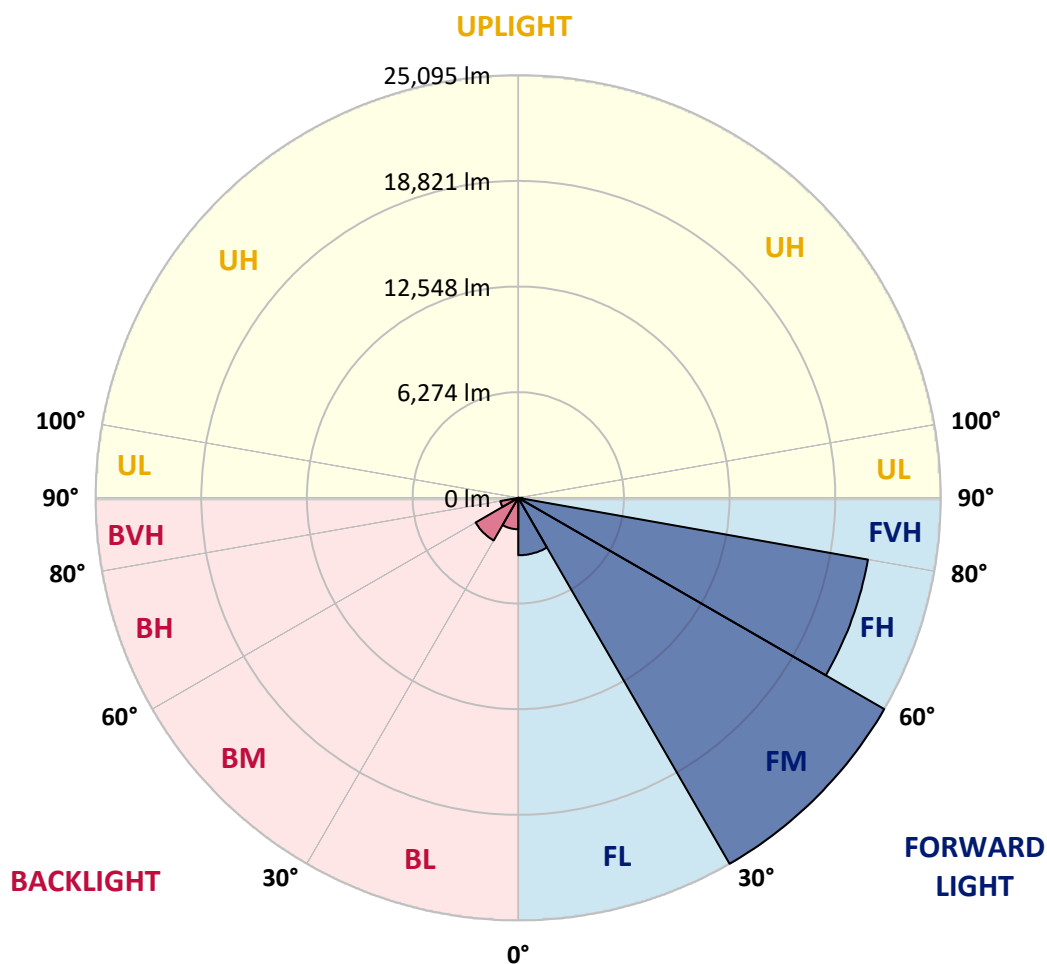
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3410.9	6.1			
FM	(30°-60°)	25095.1	45.0			
FH	(60°-80°)	21087.7	37.9			G5
FVH	(80°-90°)	245.3	0.4			G3/500
BL	(0°-30°)	1865.9	3.3	B3/2500		
BM	(30°-60°)	2923.5	5.2	B3/5000		
BH	(60°-80°)	1076.6	1.9	B3/2500		G3/2500
BVH	(80°-90°)	6.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1
2.5°	8158.8	8232.7	8222.1	8271.3	8289.0	8359.3	8429.7	8524.7	8630.2	8626.7	8697.1
5°	7697.9	7771.8	7789.4	7856.2	7940.7	8049.7	8194.0	8384.0	8581.0	8612.7	8753.4
7.5°	7152.6	7229.9	7275.8	7409.4	7564.2	7789.4	8025.1	8303.0	8630.2	8676.0	8946.9
10°	6607.3	6677.6	6737.4	6927.4	7173.7	7507.9	7891.4	8292.5	8732.3	8799.1	9182.6
12.5°	6269.5	6336.3	6403.2	6568.5	6874.7	7282.7	7803.4	8341.8	8901.1	8996.1	9502.8
15°	6149.9	6209.7	6262.4	6410.2	6695.2	7159.6	7785.9	8443.7	9115.7	9242.4	9889.7
17.5°	6167.4	6199.1	6234.4	6346.9	6624.9	7103.4	7817.5	8619.6	9369.0	9481.7	10276.8
20°	6269.5	6287.0	6290.6	6368.0	6614.3	7096.3	7880.8	8788.6	9608.2	9759.5	10660.2
22.5°	6399.7	6406.7	6399.7	6452.5	6681.2	7149.1	7965.3	8992.6	9875.7	10016.4	11047.2
25°	7008.3	6874.7	6705.8	6603.8	6793.7	7251.1	8092.0	9267.0	10167.7	10304.9	11423.7
27.5°	8897.6	8514.2	7909.0	7229.9	7025.9	7398.9	8267.9	9545.0	10463.2	10586.4	11828.3
30°	11965.5	11462.4	10435.1	8904.7	7771.8	7708.4	8496.5	9822.9	10776.3	10910.0	12261.0
32.5°	15040.4	14917.3	13731.6	11613.7	9450.0	8398.0	8876.5	10199.4	11191.5	11297.0	12845.1
35°	18150.6	17900.8	16929.7	14836.4	12035.9	9801.8	9509.7	10691.9	11736.9	11856.5	13696.5
37.5°	20532.4	20381.1	19779.5	18055.6	15103.8	11969.0	10593.4	11455.4	12528.5	12662.1	14787.2
40°	22636.3	22566.0	22361.9	21225.5	18534.0	14804.7	12278.7	12637.5	13626.1	13784.4	16124.1
42.5°	24289.9	24455.3	24571.3	24254.7	22069.9	18041.5	14544.3	14298.1	15156.6	15318.4	17826.9
45°	25982.1	26038.5	26506.4	26963.8	25581.1	21426.1	17098.6	16243.7	17059.9	17260.5	19867.5
47.5°	27069.3	27294.4	28117.7	28923.4	28532.9	24782.4	19842.9	18541.1	19265.9	19642.3	22154.4
50°	27150.2	27575.9	28708.8	30112.6	30682.6	27977.0	22826.3	21158.7	21929.2	22344.3	24596.0
52.5°	25802.7	26464.2	28219.8	30274.4	31843.6	30682.6	25911.8	23776.2	24764.8	25306.6	27129.1
55°	19783.0	20648.5	26379.7	29394.8	31889.3	32733.7	28916.4	26502.8	27924.2	28536.4	29866.2
57.5°	17235.8	17672.1	20740.0	27867.9	31041.4	33560.4	31632.4	29099.3	31361.5	32121.4	32452.2
60°	14340.4	14913.7	17394.1	25370.0	29890.9	33641.3	34031.8	32448.6	35087.4	35942.2	34823.5
62.5°	9745.5	10368.3	12834.5	21077.7	28318.3	33602.7	35998.6	35896.5	39228.3	40146.6	36832.4
65°	6037.2	6427.8	8053.2	17211.2	26119.4	33644.9	38056.7	40083.2	43598.0	44530.3	38387.5
67.5°	4770.8	4950.1	5798.0	13214.5	22330.2	32694.9	40111.4	44020.2	47710.8	48449.6	38862.5
70°	3205.1	3314.1	4218.4	8858.9	16613.1	28311.2	40072.7	45997.4	49828.7	50198.1	37131.4
72.5°	1688.8	1773.1	2466.3	4102.3	10034.0	20124.3	33778.6	43633.1	47721.3	47165.5	31738.0
75°	844.4	985.1	1660.6	2082.8	4285.2	11223.1	20975.7	34401.3	37560.7	35407.5	20363.6
77.5°	640.3	774.0	1372.1	1372.1	1491.7	3778.6	8883.6	18762.7	17306.2	14410.7	5977.5
80°	408.2	527.8	1199.8	1037.9	622.7	960.5	2315.0	5256.2	3676.6	2797.0	1087.1
82.5°	239.2	344.8	999.2	686.0	348.3	355.4	654.4	1118.8	953.5	742.3	334.3
85°	95.0	225.2	686.0	270.9	137.2	87.9	197.0	239.2	197.0	147.8	84.5
87.5°	0.0	52.8	119.6	0.0	10.6	7.1	14.0	17.6	17.6	14.0	28.2
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°	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1
2.5°	8728.7	8735.8	8756.9	8760.4	8711.2	8647.8	8623.2	8612.7	8570.4	8566.9	8573.9
5°	8834.3	8865.9	8834.3	8742.8	8524.7	8218.6	7986.4	7796.5	7624.1	7571.3	7539.6
7.5°	9045.4	9077.1	8982.1	8623.2	8074.3	7465.7	6916.8	6529.9	6181.6	6051.4	5998.6
10°	9347.9	9390.1	9091.1	8366.4	7395.4	6417.2	5488.5	4834.1	4323.9	4116.3	4028.4
12.5°	9728.0	9745.5	9150.9	7975.8	6512.2	5115.5	3799.7	3099.6	2645.7	2476.8	2424.0
15°	10146.6	10122.0	9158.0	7444.6	5309.0	3616.7	2480.4	2037.1	1854.1	1797.8	1797.8
17.5°	10586.4	10484.3	9017.2	6677.6	3989.7	2473.3	1840.1	1734.5	1702.8	1688.8	1685.2
20°	11019.2	10790.4	8760.4	5674.9	2863.8	1847.0	1671.2	1639.5	1621.9	1614.9	1607.8
22.5°	11413.2	11022.6	8320.6	4510.4	2079.3	1632.4	1579.7	1551.5	1519.9	1505.8	1502.2
25°	11796.6	11156.3	7701.4	3423.2	1664.1	1526.9	1484.7	1431.9	1389.7	1372.1	1365.1
27.5°	12169.6	11240.8	6927.4	2533.1	1484.7	1428.4	1351.1	1277.1	1245.5	1238.4	1231.3
30°	12567.1	11269.0	6047.8	1889.3	1375.7	1305.2	1192.7	1108.2	1090.7	1094.2	1094.2
32.5°	13052.7	11311.1	5161.3	1548.1	1284.1	1157.5	1023.8	935.8	921.8	935.8	932.3
35°	13633.1	11395.5	4306.3	1424.9	1203.2	1006.2	861.9	788.1	774.0	784.5	781.0
37.5°	14421.2	11532.8	3507.7	1400.3	1136.4	879.6	724.8	664.9	664.9	668.5	664.9
40°	15469.7	11898.7	2793.4	1382.6	1101.2	784.5	612.1	587.5	598.1	605.2	605.2
42.5°	16746.8	12676.2	2311.5	1361.5	1062.5	742.3	555.9	545.3	562.9	570.0	570.0
45°	18178.7	13661.3	2142.6	1326.4	1027.4	770.5	531.3	517.2	538.3	541.8	545.3
47.5°	19659.9	14625.3	2121.5	1287.7	992.1	812.7	524.2	492.5	517.2	520.7	524.2
50°	21158.7	15255.1	2142.6	1227.8	935.8	812.7	527.8	467.9	489.0	499.6	503.1
52.5°	22668.0	15543.5	2128.5	1097.7	837.3	763.4	527.8	446.8	467.9	475.0	475.0
55°	24131.6	15487.2	1913.9	904.2	710.6	675.5	513.6	429.3	443.3	446.8	446.8
57.5°	25289.1	14702.7	1516.4	703.7	577.0	562.9	467.9	408.2	418.7	415.1	415.1
60°	25894.2	12978.8	1083.6	541.8	453.9	443.3	411.6	380.0	387.0	369.4	365.9
62.5°	25901.2	10698.9	724.8	429.3	362.3	351.8	351.8	341.2	334.3	299.1	288.5
65°	25348.9	8169.4	482.0	341.2	292.0	274.4	295.5	292.0	267.4	218.1	211.0
67.5°	24096.4	5354.7	365.9	267.4	225.2	214.6	235.7	246.3	228.7	183.0	179.5
70°	21521.0	3117.1	302.6	207.6	168.9	158.4	190.0	211.0	190.0	147.8	140.7
72.5°	17876.1	1681.7	246.3	154.8	116.1	105.6	151.3	172.4	151.3	109.1	105.6
75°	11599.6	900.7	190.0	102.0	59.9	66.8	112.5	126.7	105.6	70.3	63.3
77.5°	3894.7	397.6	119.6	49.3	28.2	28.2	66.8	77.4	49.3	24.6	21.1
80°	869.0	165.3	49.3	21.1	10.6	10.6	14.0	14.0	7.1	0.0	0.0
82.5°	285.0	66.8	21.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	109.1	24.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.2	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)