

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765565_350MP

Luminaire Tested:

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765565_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number:
Description: 400W MH TYPE V AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 26557.8 lumens
Efficiency: 80.5%
Efficacy: 66.9 lumens/watt
Luminous Opening: (L: -2.1 ' x W: 0 ' x H: 1.3 '
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U2 - G4

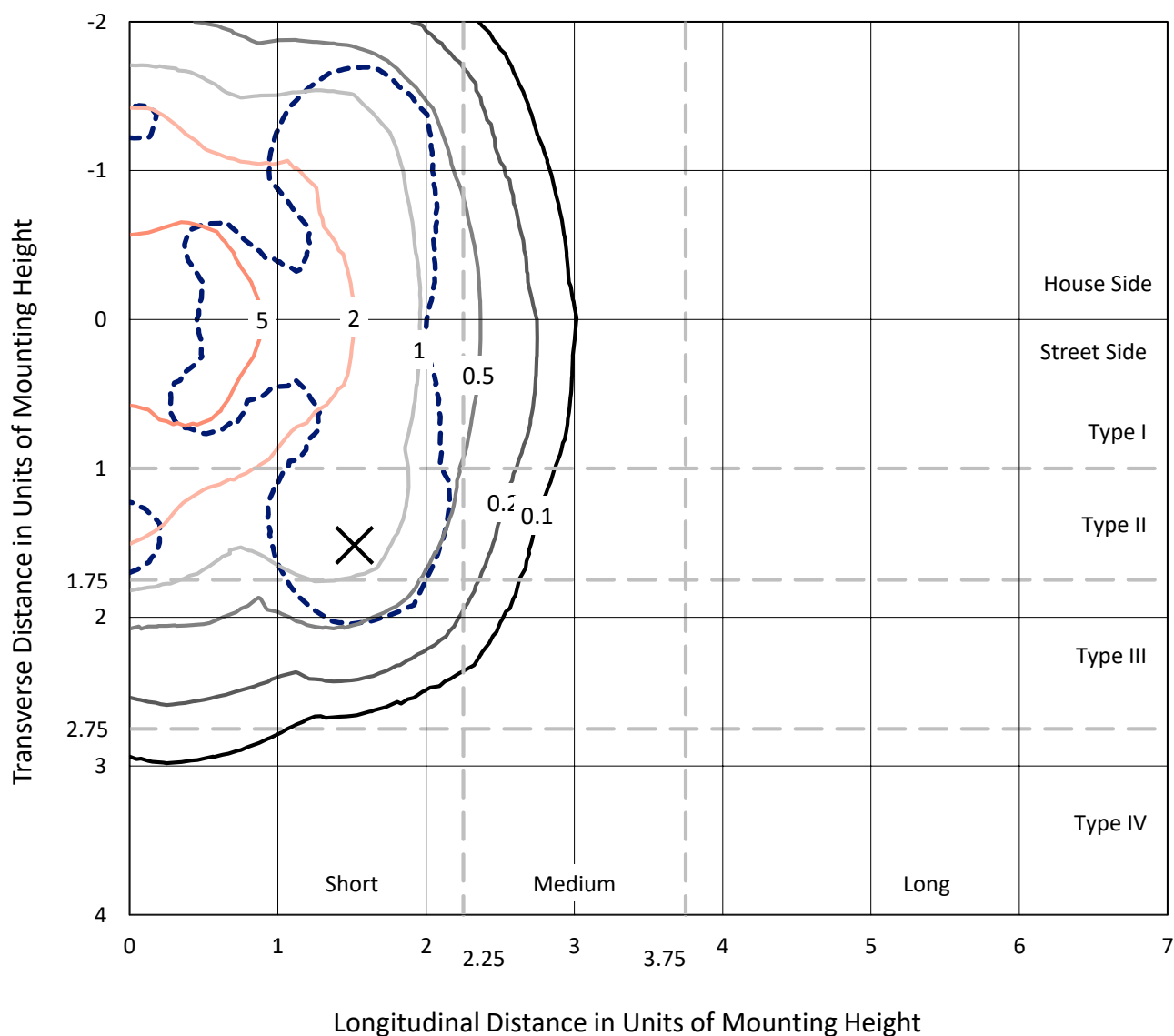
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

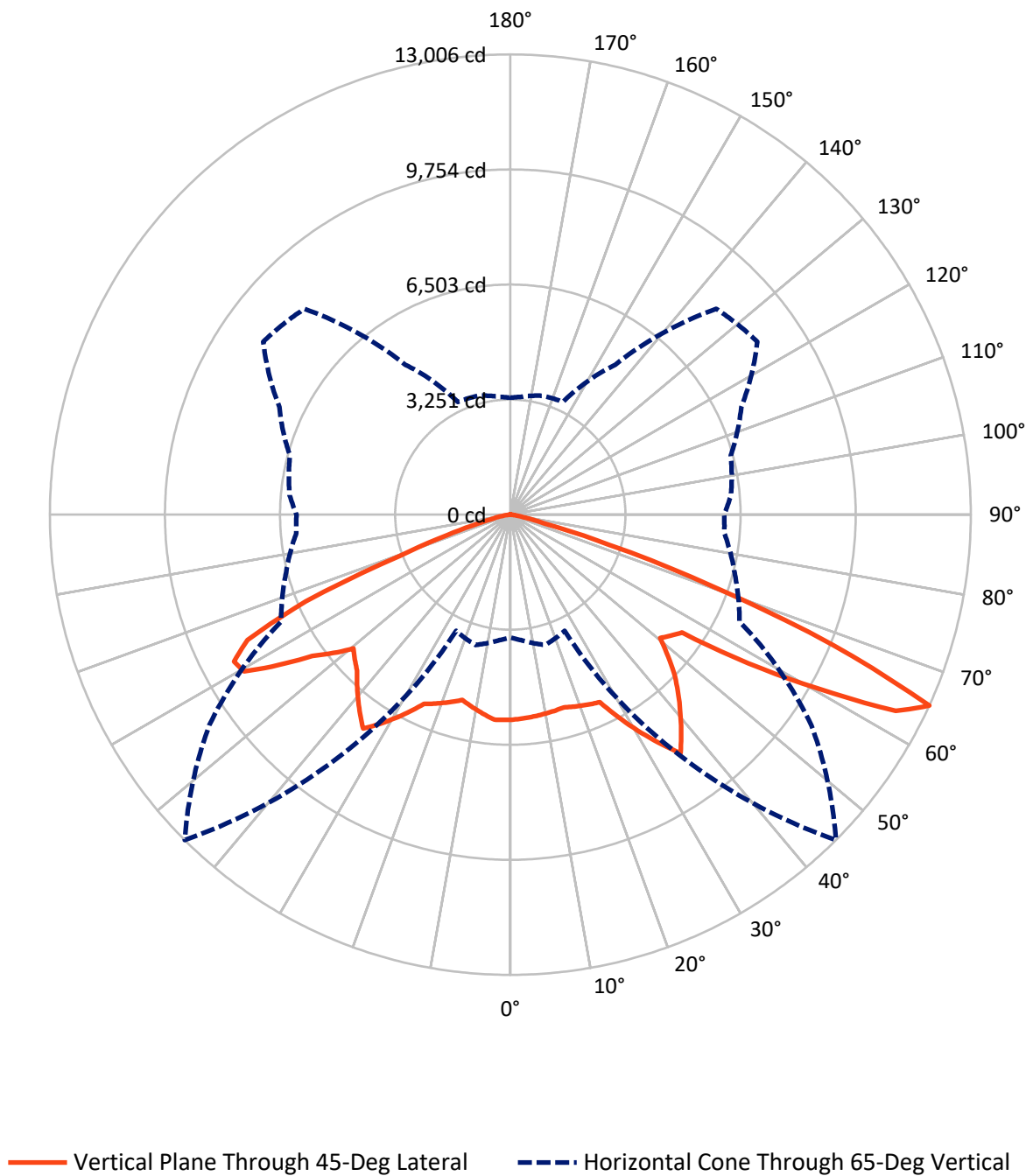
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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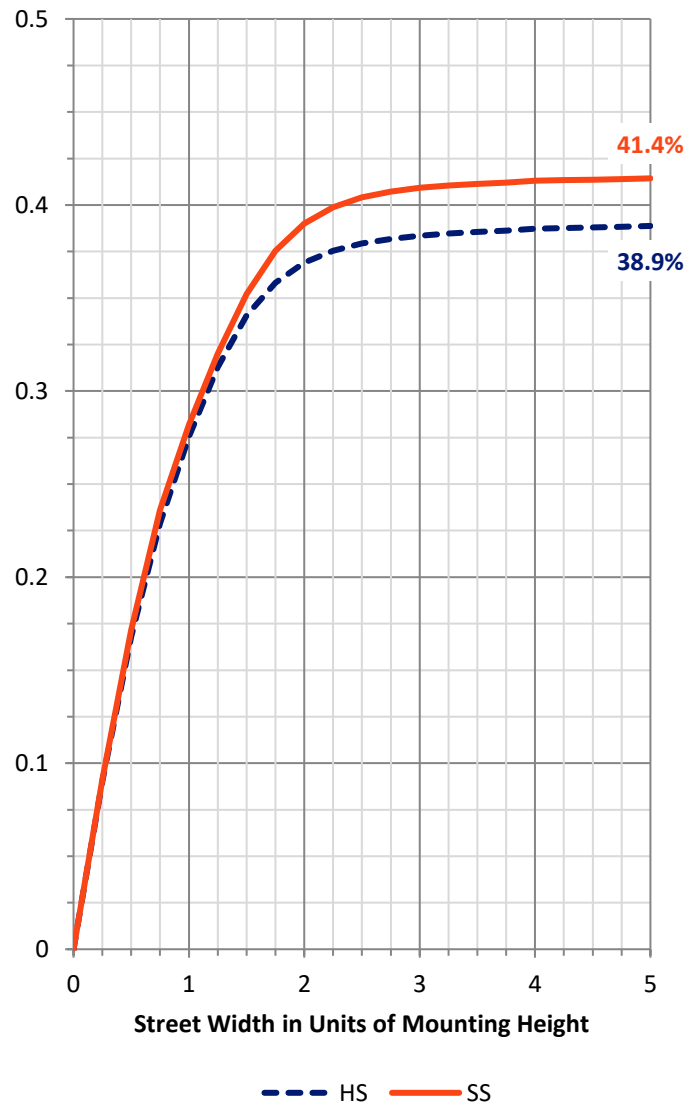
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12866.6	16.3	12882.9
	% Lamp	39.0	0.0	39.0
Street Side	Lumens	13659.8	15.0	13674.9
	% Lamp	41.4	0.0	41.4
Total	Lumens	26526.4	31.4	26557.8
	% Lamp	80.4	0.1	80.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	544.7	2.1	1.7
10°-20°	1597.6	6.0	4.8
20°-30°	2743.5	10.3	8.3
30°-40°	3973.4	15.0	12.0
40°-50°	4772.5	18.0	14.5
50°-60°	5742.8	21.6	17.4
60°-70°	5770.3	21.7	17.5
70°-80°	1231.4	4.6	3.7
80°-90°	80.1	0.3	0.2
90°-100°	11.0	0.0	0.0
100°-110°	11.8	0.0	0.0
110°-120°	6.8	0.0	0.0
120°-130°	1.6	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	26526.4	99.9	80.4
0°-180°	26557.8	100.0	80.5

Coefficient of Utilization



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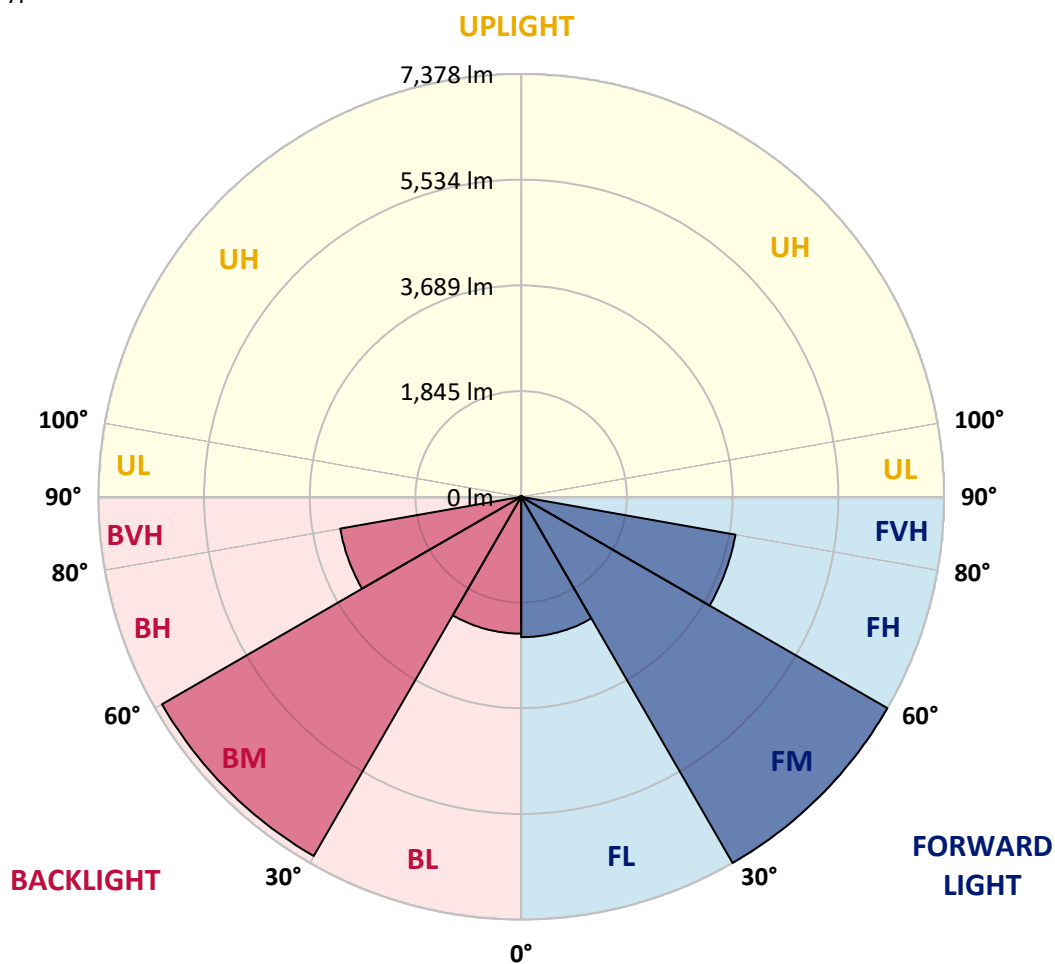
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2450.1	7.4			
FM	(30°-60°)	7378.3	22.4			
FH	(60°-80°)	3796.6	11.5			G2/5000
FVH	(80°-90°)	40.2	0.1			G1/100
BL	(0°-30°)	2387.8	7.2	B3/2500		
BM	(30°-60°)	7237.6	21.9	B4/8500		
BH	(60°-80°)	3205.2	9.7	B4/5000		G4/5000
BVH	(80°-90°)	39.9	0.1			G1/100
UL	(90°-100°)	11.0	0.0		U2/50	
UH	(100°-180°)	16.3	0.0		U2/50	
Trapped Light		6442.2	19.5			

BUG Rating: B4-U2-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5
5°	5896.6	5878.6	5860.6	5819.5	5789.5	5753.5	5753.5	5740.5	5763.5	5757.5	5732.5
15°	5286.2	5278.2	5316.2	5423.3	5518.3	5653.4	5737.5	5817.5	5849.5	5896.6	5901.6
25°	5033.1	5056.1	5210.2	5518.3	5753.5	5870.6	5908.6	6105.7	6392.9	6513.9	6525.0
35°	4565.8	4618.8	5256.2	6775.1	8314.0	8277.0	7445.5	7066.3	7025.3	6967.2	7005.2
45°	4996.0	4911.0	4893.0	5383.3	6023.7	6521.0	6396.9	6852.2	7543.6	7800.7	7800.7
50°	6183.7	6037.7	5183.1	5073.1	5290.2	5480.3	5406.3	5976.6	6886.2	7065.3	7081.3
55°	7783.7	7040.3	5716.5	5046.1	5556.4	5882.6	5819.5	6499.9	7404.5	7410.5	7425.5
60°	6397.9	6205.8	5344.2	4561.8	6784.1	9957.0	9257.6	7545.6	7633.6	7513.6	7580.6
62.5°	4609.8	4042.4	4732.9	3948.4	7975.8	12221.4	10607.4	7705.7	7095.3	6703.1	6735.1
65°	3472.1	3560.2	3811.3	3623.2	8256.0	13005.9	10381.3	7141.3	6568.0	6067.7	6038.7
67.5°	2813.7	2981.8	3122.9	3163.9	7055.3	9832.0	8481.1	6013.6	5437.3	5179.1	5153.1
70°	2104.3	2495.5	2409.5	2380.4	4784.9	6034.7	4648.8	3459.1	3470.1	3198.9	3108.9
72.5°	1584.0	1622.0	1644.0	1238.8	2051.2	2937.8	2310.4	1454.9	1465.9	1216.7	1419.9
75°	981.6	1093.7	1057.6	693.4	865.5	972.6	987.6	815.5	738.4	737.4	755.5
77.5°	738.4	745.5	720.4	423.3	413.3	493.3	453.3	408.2	498.3	382.2	397.2
80°	389.2	404.2	416.3	226.1	218.1	231.1	209.1	189.1	173.1	181.1	183.1
82.5°	193.1	184.1	163.1	123.1	123.1	107.1	91.1	82.0	85.1	90.1	86.1
85°	50.0	59.0	53.0	47.0	47.0	47.0	38.0	30.0	31.0	23.0	18.0
87.5°	18.0	22.0	22.0	13.0	17.0	13.0	3.0	0.0	0.0	0.0	0.0
90°	16.0	23.0	18.0	10.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0
95°	34.0	38.0	38.0	23.0	22.0	16.0	0.0	0.0	0.0	0.0	0.0
105°	13.0	17.0	21.0	25.0	26.0	10.0	0.0	0.0	0.0	0.0	0.0
115°	3.0	5.0	1.0	0.0	4.0	4.0	3.0	7.0	13.0	4.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5	5795.5
5°	5727.5	5698.5	5682.4	5793.5	5810.5	5700.5	5659.4	5587.4	5554.4	5646.4
15°	5874.6	5896.6	5691.4	5550.4	5407.3	5239.2	5107.1	5057.1	5005.0	4986.0
25°	6475.9	6336.8	6047.7	5953.6	5877.6	5617.4	5286.2	4997.0	4853.9	4831.9
35°	7109.3	7222.4	7128.3	7234.4	7337.4	6755.1	5720.5	5008.0	4647.8	4627.8
45°	7653.6	7169.3	6480.9	6307.8	6178.7	5629.4	5224.2	5372.3	5501.3	5413.3
50°	7003.2	6513.9	5732.5	5750.5	5826.5	5355.2	5119.1	5661.4	6574.0	6483.9
55°	7521.6	7376.5	6714.1	6954.2	6871.2	5556.4	4935.0	5648.4	6772.1	6776.1
60°	7365.5	7314.4	7801.7	8929.4	8729.3	5814.5	4236.6	4799.9	4635.8	4638.8
62.5°	6814.1	7038.3	7875.8	9416.7	8837.4	5682.4	3896.4	4145.5	3902.4	3735.3
65°	6256.8	6444.9	7198.4	8517.2	8226.0	5173.1	3513.1	3478.1	3340.0	3302.0
67.5°	5103.1	5263.2	5471.3	6721.1	6272.8	4203.5	2868.7	2706.6	2801.7	2740.7
70°	2560.6	2687.6	2824.7	3687.2	3335.0	2362.4	1575.0	1938.2	2321.4	2258.4
72.5°	1405.9	1492.9	1617.0	1810.1	1868.1	1237.8	1072.7	1427.9	1514.9	1487.9
75°	670.4	698.4	854.5	931.6	944.6	783.5	693.4	963.6	1124.7	1106.7
77.5°	393.2	404.2	430.3	450.3	464.3	490.3	420.3	629.4	789.5	850.5
80°	220.1	194.1	205.1	252.2	359.2	257.2	250.2	312.2	419.3	412.2
82.5°	74.0	80.0	87.1	113.1	119.1	113.1	97.1	120.1	188.1	180.1
85°	22.0	27.0	33.0	35.0	39.0	53.0	43.0	47.0	55.0	63.0
87.5°	0.0	0.0	1.0	4.0	8.0	14.0	16.0	9.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	4.0	4.0	1.0	0.0	13.0
95°	0.0	0.0	0.0	0.0	0.0	4.0	20.0	38.0	18.0	13.0
105°	0.0	0.0	0.0	0.0	0.0	4.0	12.0	40.0	70.0	81.0
115°	0.0	12.0	8.0	3.0	9.0	7.0	9.0	14.0	30.0	31.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)